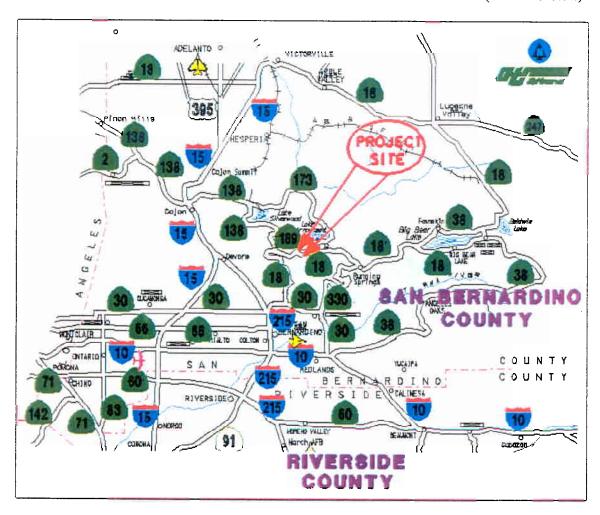
PROJECT STUDY REPORT

LOCATION MAP

08-SBD-18-KP- 33.20-33.70 (PM 20.61-20.92) 08-SBD-189- KP 0.00-0.50 (PM 0.00-0.31)

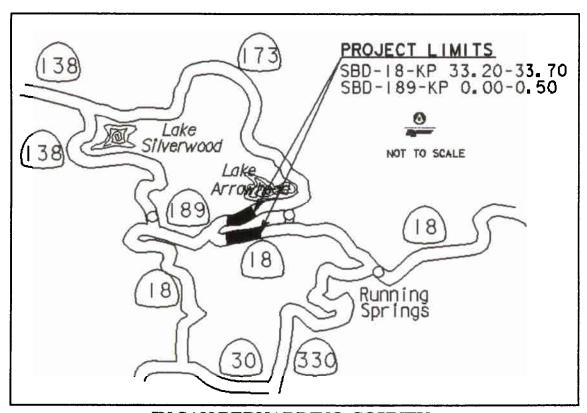


IN SAN BERNARDINO COUNTY
NEAR RIM FOREST
FROM JUNCTION ROUTE 18 AND ROUTE 189
TO 0.5 Km EAST OF JUNCTION



PROJECT STUDY REPORT

VICINITY MAP



IN SAN BERNARDINO COUNTY NEAR RIM FOREST FROM JUNCTION ROUTE 18 AND ROUTE 189 TO 0.5 Km EAST OF JUNCTION

APPROVAL RECOMMENDED:

Cem may 8/1/02

OWEN SPENCER DATE
OFFICE CHIEF PROJECT DEVELOPMENT

DESIGN B

APPROVED BY:

ANNE MAYER' \ DATE

DISTRICT DIRECTOR

CONCURRED BY:

DARY WINTERGERST DATE

PROJECT MANAGER

CONCURRED BY:

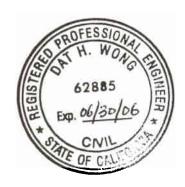
KHALIL SABA DATE
ACTING DEPUTY DISTRICT DIRECTOR

ENVIRONMENTAL PLANNING

08-SBd-18-KP 33.20/33.70 189-KP 0.00/0.50 (18-PM 20.61/20.92 & 189-0.00/0.31) Reconstruct slopes, replace stacked rock wall, widen lane and shoulder widths on Route 189, and construct Retaining wall on Route 18

08-221-1A900K

This Project Study Report has been prepared under the direction of the following Registered Civil Engineer. The Registered Civil Engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.



REGISTERED CIVIL ENGINEER

DATE

08-SBd-18-KP 33.20/33.70 189-KP 0.00/0.50 (18-PM 20.61/20.92 & 189-0.00/0.31) Reconstruct slopes, widen Lane and shoulder widths, replace Stacked rock wall on Rte 189, and Construct retaining wall on Rte 18 08-221-1A900K

PROJECT STUDY REPORT

1. <u>INTRODUCTION</u>

The purpose of this project is to minimize maintenance problems on State Route (SR) 18 from kilometer post 33.20 to 33.70 and on State Route (SR) 189 from kilometer post 0.00 to 0.50 in San Bernardino County. The proposed project is to reconstruct slopes, replace existing stacked rock on Westbound SR 189, and widen existing lane and shoulder widths to the current standard. It includes upgrading supported metal beam guardrail on Eastbound SR 189. The proposed project will also remove the existing retaining wall and construct a new retaining wall on the North side of SR 18 to stabilize the eroded slope between SR 189 and SR 18. Two alternatives have been studied for this report. The total preliminary estimated costs of the proposed project are \$4,613,000 and \$4,803,000 for alternative 1 and 2 respectively. This project does not require new right of way. However, temporary easement may be required for constructing various wall types on SR 189.

Funding is proposed under the State Highway Operation and Protection Program (SHOPP) through the HA 42 Program. The project is classified as category 4B as defined in chapter 8, section 5 of Caltrans Project Development Procedures Manual seventh edition (See Exhibit I).

2. BACKGROUND

A. History

The Project Initiation Proposal (PIP) for SR 18 and SR 189 was initiated by the maintenance branch and approved on August 4, 2001. This PIP identified deterioration of the existing stacked rock wall on Westbound SR 189 and erosion of the existing slope between SR 189 and SR 18. The existing paved width on SR 189 is 5.2 meters. As a result, the maintenance branch has recommended replacing stacked rock wall on Westbound SR 189, widening lanes, removing the exist retaining wall and constructing a new retaining wall between SR 189 and SR 18. The Caltrans Geotechnical Design South branch has proposed two alternatives that are being studied for this report.

B. Existing Facility

In San Bernardino County, SR 18 varies from a two to four-lane conventional highway. It serves intra-regional and local traffic. High traffic demand occurs on weekends and holidays due to recreational trips to the San Bernardino Mountain and desert areas. SR 189 is a two-lane undivided conventional highway that traverses mountain terrain. It begins at State Route 18 near Crestline and terminates at State Route 173 near Lake Arrowhead in San Bernardino County. The entire route length is 9.0 kilometers within an urban area. SR 189 has federal functional classification of urban Minor Arterial. The Federal Highway Administration (FHWA) does not designate it as a part of the freeway and expressway system, nor a route for large trucks. The route is not a part of the Interregional Road System (IRRS). Its primary purpose is to serve local traffic. Traffic volume on SR 189 may vary significantly during the year with recreational peaks occurring on summer weekends.

The portion of SR 18 addressed in this report has federal functional classification as a Rural Minor Arterial and a concept of "maintain only", which allows for safety and operational improvements. Also, this portion of SR is eligible as State Scenic Highway, a San Bernardino County scenic Road and a National Forest Scenic Byway. The SR 18 project segment is part of the original alignment of the Rim of the World Highway.

Within the project limits, SR 189 has two narrow lanes with no shoulder in either direction. SR 189 is roughly parallel to SR 18 in the project location. The vertical separation between SR 189 and SR 18 varies as much as 10 meters with slope ratio approximately 1: 0.75. A stacked rock wall about 96 meters in length and up to 2.4 meters in height exists above the roadway on the north side of SR 189. The slope above the rock wall varies from 1:4 to 1:2, extending to a wrought iron fence between 2 and 10 meters behind the top of wall. There are two large

trees on the slope between the rock wall and the fence. The stacked rock wall shows signs of distress, bulging, and several rocks in the middle of the wall have fallen out. The pavement width of SR 189 near the rock wall varies from 5.2 to 5.7 meters. On the south side of SR 189, the existing metal beam guardrail is tilted away from the roadway towards the south due to erosion of slopes.

Below the tilted guardrail on the south of SR 189, there is a 1.8-meter high retaining wall constructed of sand bags filled with concrete stacked on one another (sacked-concrete wall) (see exhibit K). The top of this wall is about a half meter below the SR 189 roadway. The wall is about 4.9 meters long and is being undermined at the base and sides. The bottom of the wall is about 2 meters above the top of a 5.5-meter high Type 1 retaining wall (see exhibit K) located 3.6 meters north of the fog line for westbound SR 18. The Type 1 wall is apparently in good structural condition with no major cracks or tilting, but its western end shows signs of erosion.

There is also a second sacked-concrete retaining wall east of the eastern end of the Type 1 retaining wall. It also shows signs of erosion. The top of this wall is also about a half meter below the SR 189 roadway.

TABLE 1
EXISTING LANE AND SHOULDER WIDTHS

FACILITY	ROUTE 189 (meter)	ROUTE 18 (meter)
Lane width	2.6	3.66
Right shoulder	0	0.6 and varies
Left shoulder	0	0.6 and varies

3. NEED AND PURPOSE

Within the project limits, the existing stacked-rock wall that is located on SR 189 near the edge of traveled way has deteriorated over time. The proposed replacing of this wall will prevent rocks from falling apart and onto the roadway. The existing lane and shoulder widths on SR 189 need to be widened to meet the current standards. The existing concrete retaining wall on the north side of SR 18 does not provide the minimum horizontal clearance. A retaining wall needs to be constructed at minimum 2.4 meters from the edge of traveled way to provide horizontal clearance on the north side of SR 18. Extension of the new wall to the east and west end is necessary to prevent failure of the existing slope, and to reduce the potential development of a landslide from the slope between SR 189 and SR 18. Slope erosion is causing the loss of lateral support to SR 189. Extending retaining walls and providing soil

retention methods will prevent the continuous erosion of the slope within the project limits.

A. TRAFFIC DATA

Design Designation Traffic Data

SBd-18-KP 33.20/33.70	2002	2020	2030
ADT (Average Daily Traffic) DHV (Design Hour Volume) D (Directional Split) T (% trucks in Design Hour)	10,800	16,000	18,400
	1,100	1,440	1,660
	65/35	65/35	65/35
	7%	7%	7%
SBd-189- KP 0.00/0.50	2002	2020	2030
ADT (Average Daily Traffic) DHV (Design Hour Volume) D (Directional Split) T (% truck in Design Hour)	3,500	7,200	7,560
	350	600	650
	52/48	52/48	52/48
	3%	3%	3%

Traffic Index

SBd-18-KP 33.20/33.70	Main lanes	Shoulders
10-year traffic index	10.0	6.5
20-year traffic index	11.5	7.0
SBd-189-KP 0.00/0.50	Main lanes	Shoulders
SBd-189-KP 0.00/0.50 10-year traffic index	Main lanes	Shoulders 4.5

B. ACCIDENT ANALYSIS

The Caltrans Traffic Accident Surveillance and Analysis System (TASAS) Table provided by the Office of Traffic Operations. The table 2 shows a summary of the 3-year accident rate from January 01, 1999 to December 31, 2001 within the proposed project limits for SR 18 and SR 189 respectively.

TABLE 2

ACCIDENT DATA

(Per MillionVehicle)

Location		ACTUAL		AVERAGE			
	Fatal	Fatal & Inj	Total	Fatal	Fatal & Inj	Total	
SR 18 KP 33.2/33.7 (PM 20.61/20.92)	0.00	0.853	1.963	0.015	0.295	0.630	
SR 189 KP 0.0/0.50 (PM 0.00/0.31)	0.00	0.537	3.492	0.006	0.570	1.475	

The Traffic Accident Surveillance and Analysis System (TASAS) reported 23 accidents for SR 18 from the period from 01/01/1999 to 12/31/2001.

For SR 18 within the project limits, the accidents that occurred in this stretch are hit object (10 accidents, 43.4%), broadside (9 accidents, 39.1%), sideswipe (2 accident, 8.6%), head on (1 accident, 4.3%), and other (1 accident, 4.3%).

The Traffic Accident Surveillance and Analysis System (TASAS) reported 13 accidents for SR 189 from the period from 01/01/1999 to 12/31/2001.

For SR 189 within the project limits, the accidents that occurred in this stretch are broadside (2 accidents, 15.3%), hit object (7 accidents, 53.8%), rear end (3 accidents, 23.0%), and head on (1 accident, 7.6%).

The accident data in table 2 indicates that total actual accident rates within project limits are higher than the average accident rates for similar types of highway.

4. <u>ALTERNATIVES</u>

To prevent slope erosion between SR 189 and SR 18, alternative 1 and alternative 2 will require replacing the existing stacked rock wall on the north side of SR 189 and the existing retaining wall on the north side of SR 18.

ALTERNATIVE 1

In this alternative, the existing pavement surface of SR 189 is lowered 5 meters from the original ground at the deepest cut beginning 50 meters beyond both ends of the existing stacked rock wall. The existing stacked rock wall on the north side of SR 189 will be removed and replaced with a soil nail wall along the rock wall layout line. The height of the soil nail wall varies from 3.5 to 7.0 meters. The existing pavement width is widened from its current 5.2 meters minimum width to two 3.6-meter wide lanes and two 2.4-meter shoulders for a total width of 12 meters. The existing metal beam guardrail is removed and replaced. The existing sacked-concrete wall above

and at the west end of the existing Type 1 wall on the north side of SR 18 is removed. The existing Type 1 retaining wall is removed and a new retaining wall is constructed at minimum 2.4 meters from the edge of traveled way of SR 18. The new wall would be extended at least 3 meters to the west and 76 meters to the east to prevent erosion of the slope.

The preliminary estimated cost for alternative 1 is \$4,613,000.

ALTERNATIVE 2

For the alternative 2, the existing stacked rock wall is removed and replaced with a soil nail wall along the same layout line. The soil nail wall is constructed to the same height as the existing wall, and extends 2 meters from each end of the wall. The existing pavement width of SR189 is widened from its current 5.2 meters minimum width to two 3.6-meter wide lanes and two to 2.4-meter shoulders for a total width of 12 meters. The existing metal beam guardrail is removed and replaced. The existing Type 1 and sacked concrete walls between Route 189 and Route 18 are removed and a higher wall is constructed at minimum 2.4 meters from edge of traveled way of SR 18. The new wall would be extended 3 meters and 76 meters further from the existing Type 1 wall to the west and east respectively. The minimum 1:2 slope is constructed from the bottom of the new wall to the top of the retaining wall Type 1 on SR 18.

The preliminary estimated cost for alternative 2 is \$4,803,000.

ALTERNATIVE 3: NO BUILD

Alternative 3 consists of no physical improvement or modification at this time. The stacked-rock wall will ultimately deteriorate allowing materials to impact the roadway adversely affecting traffic. Therefore, this alternative is not recommended for further consideration.

TABLE 3
SUMMARY OF COST ESTIMATES

Alternative	Roadway	Structures	Utility Relocation	Total
1	\$4,590,000	0	\$23,000	\$4,613,000
2	\$4,778,000	0	\$23,000	\$4,803,000

The itemized project cost estimate for each alternative is attached (See Exhibit C)

Alternative 1 meets the need of safety improvements due to the height and steepness of the slope between the SR 189 and SR 18. This alternative will minimize maintenance and reduce slope erosion. In this alternative, SR 189 will need to be closed temporarily during construction when the grade is lowered. A detour will need to be provided during construction.

Alternative 2 also meets the need of safety concerns. This alternative also will minimize maintenance and reduce slope erosion. In this alternative, it will need one-way traffic control on SR 18 and SR 189 during construction.

For both alternatives, approximately 20 tall trees would be removed between SR 189 and SR 18, and three power poles will be removed and relocated. Environmental study and clearance will be required.

5. SYSTEM AND REGIONAL PLANNING

SR 189 is not part of the Interregional Road System (IRRS). The concept of "Maintain only" provides for operational and safety improvements for SR 189 in San Bernardino County. The plan of "Maintain only" does not preclude local government or private sector funding for needed major improvements resulting from significant local development. The route is not a high priority route for capacity improvement within the twenty-year period. There are no plans to make additional capacity improvements to SR 189. However, operational improvements such as passing lanes and turnouts could alleviate slow moving queues that normally develop on mountainous roads. Alternatives such as Traffic System Management, Traffic Demand Management, and operational improvements should always be considered to enhance future traffic flow.

The construction of the proposed improvement of SR 18 under this project will be coordinated with all other projects within the limits of this project. This project is consistent with the approved Route Concept Report.

6. TRAFFIC MANAGEMENT PLAN (TMP)

It is anticipated that SR 189 will be closed for alternative 1, and a detour will be provided during construction. Because traffic delays are anticipated from this project, a Traffic Management Plan (TMP) will be required to minimize the traffic impacts due to construction activities. The TMP will include construction staging, a Public Awareness Campaign to inform the public such as alternative routes, use changeable message signs, and Construction Zone Enhanced Enforcement Program (COZEEP).

A detailed TMP addressing safety for both motorists and employees should be developed during the preparation of Plans, Specification, and Estimate (PS&E) for this project. The anticipated cost of the TMP and detour maintenance has been included in the Preliminary Cost Estimate for this project (See Exhibit C).

7. ENVIRONMENTAL STATUS

In compliance with the environmental processing requirements in Division 13, Public Resources Code (State), and 42 U.S.C. 4332(2) (C) (Federal), an Initial Study/Environmental Assessment (IS/EA) may be required for this project.

A Mitigated Negative Declaration and Finding of No Significant Impact (ND/FONSI) is anticipated. If further study reveals that immitigable impacts will occur, an Environmental Impact Report/Environmental Impact Study (EIR/EIS) would be required.

An archaeological survey may be required for the project. The Area of Potential Effects must include all access roads, work areas and staging areas beyond the existing paved highway. A historic survey of resources, related to the project may be required.

8. RIGHT OF WAY

All construction work will be done inside the State right of way, unless further studies determine that more R/W is needed for soil nails. Utilities in the middle section between State Route 189 and State Route 18 will be removed and relocated. Other utilities will be protected in place during construction. However, temporary easement may be required for constructing the stacked rock wall.

9. FUNDING/SCHEDULING

This project is proposed for funding under the State Highway Operation and Protection Program (SHOPP).

TABLE 4

CAPITAL OUTLAY SUPPORT ESTIMATE FOR PA&ED

The following table is a summary of the estimated Person Year (Pys) required completing the project according to the Person Year, Project Scheduling, and Cost Analysis (PYSCAN) Program.

				Dis	trict				Engineer Service Center		nter				
Fiscal					PS&	E			Engineer Service				CHICK		
Year	PA&	ED	Desig	gn	R/W ar Survey		Construc	tion	Desig	gn	Construc	tion	Office Engineer	ñ	
	\$1000 s	PY	\$1000 s	PY	\$1000 s	PY	\$1000 s	PY	\$1000 s	PY	\$1000 s	PY	\$1000 s	PY	
03/04	445.6	2.82			11.0	0.07			4.74	0.03					
04/05	50.6	0.32	477.2	3.02	42.7	0.27			355.5	2.25					
05/06			22.1	0.14	23.7	0.15							33.2	0.21	
06/07					17.4	0.11	1,148.7	7.27			418.7	2.65			
Total	496.2	3.14	499.3	3.16	94.8	0.60	1,148.7	7.27	360.24	2.27	418.7	2.65	33.2	0.21	

TABLE 5

CAPITAL OUTLAY ESTIMATE

ALTERNATIVE	TOTAL COST
ALTERNATIVE 1	\$4,613,000
ALTERNATIVE 2	\$4,803,000

TABLE 6

TENTATIVE PROJECT SCHEDULE

The following table is a summary of the tentative schedule milestones for this project.

MILESTONES	FISCAL YEAR
Approved PSR	09/01/02
PA &ED	11/01/04
District PS&E	12/01/05
R/W Certification	01/02/06
HQ Advertisement	04/03/06
Project Completion	08/01/07

10. NON-STANDARD FEATURES

All improvements will be consistent with Caltrans latest design standards. However, several features that do not conform to current geometric standards may exist throughout the facility within the project limits due to mountain terrain such as shoulder width, horizontal and vertical sight distance. Correction of any of these geometric features is beyond the scope of the project. Luis Betancourt, HQ Project Development Coordinator, concurs with this recommendation and has determined that no other documentation is necessary.

11. PROGRAMMING RECOMMENDATION

Caltrans District 8 recommends programming of the PA&ED support component in the SHOPP as discussed in the Funding/Scheduling section.

12. PROJECT REVIEW

Construction Review and Safety, Maintenance Engineering, Right of Way, Traffic Operation, and other functional units have reviewed this Project Study Report. A Constructability Review will be conducted during the Project Report phase.

This PSR was also reviewed and concurred by:

Luis Betancourt

Headquarter Project Development Coordinator Date: 07/23/02

Rebecca Mowry

Headquarter Reviewer Date: 06/05/02

Mike Downs

Headquarter Structures Liaison Date: 04/25/02

Wayne Henley

Headquarter Traffic Operation Liaison Date: 07/30/02

13. PERSONNEL CONTACT

Owen Spencer Office chief Calnet 670-6223

Design B Public (909) 383-6223

Gary Wintergerst Project Manager Calnet 670-6334

Public (909) 383-6334

Dat Wong Project Engineer Calnet 670-1062

Public (909) 884-1062

Sumner Baker Office Chief Calnet 670-4079

Environmental Branch Public (909) 383-4079

Douglas Brittsan Associate Materials and Public (916) 227-4513

Research Engineer Geotechnical Branch C

14. <u>ATTACHMENTS</u>

EXHIBIT A: Layout

EXHIBIT B: Typical Cross Sections

EXHIBIT C: Preliminary Cost Estimates

EXHIBIT D: Right of Way Data Sheet

EXHIBIT E: Preliminary Environmental Analysis Report

EXHIBIT F: Three-Year-Accident Data

EXHIBIT G: Initial site Assessment (ISA)

EXHIBIT H: Project Initiation Proposals (PIPs)

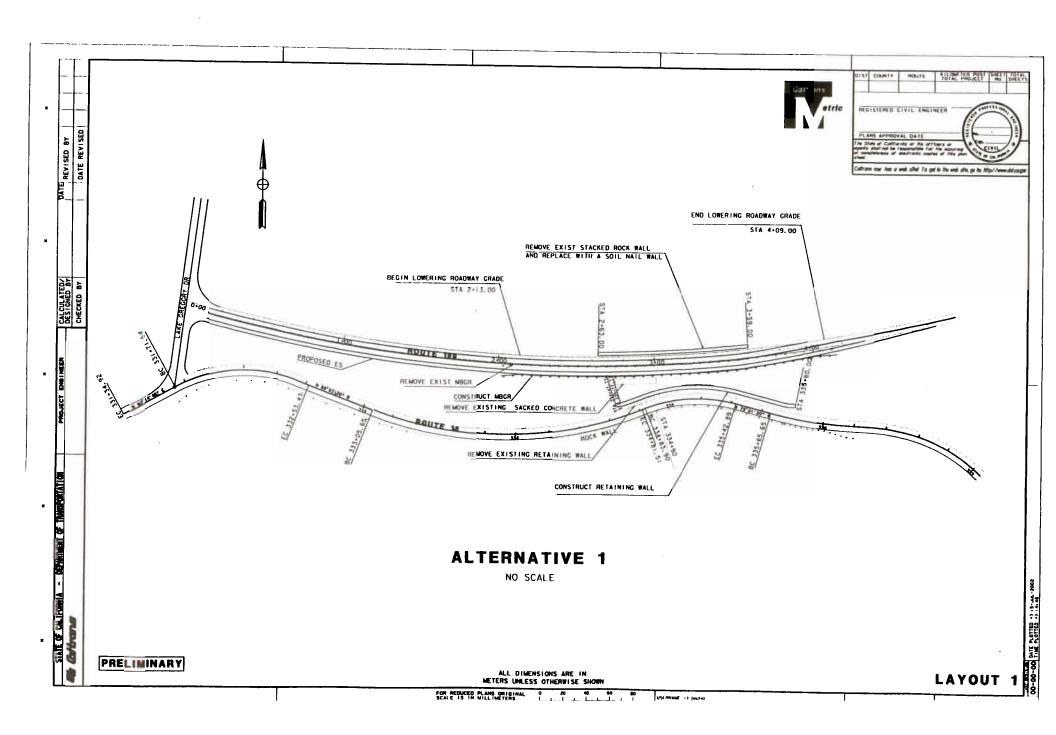
EXHIBIT I: Project Category Approval

EXHIBIT J: Work Plan

EXHIBIT K: Photos

EXHIBIT L: PSR Performance Measures

EXHIBIT A LAYOUT



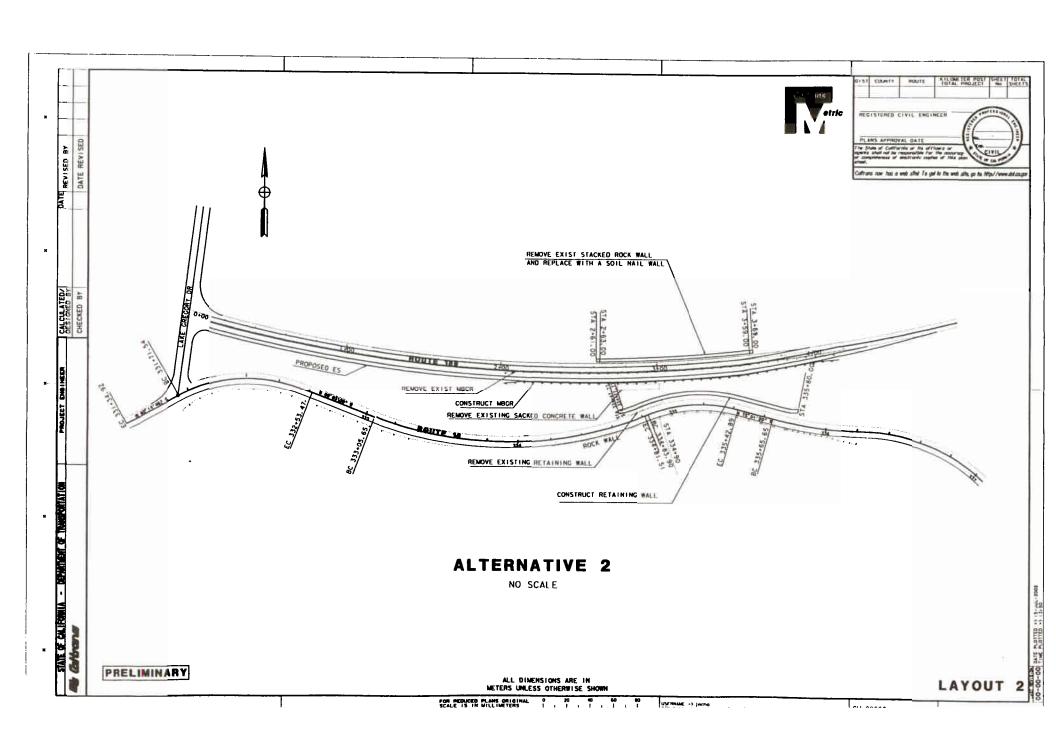
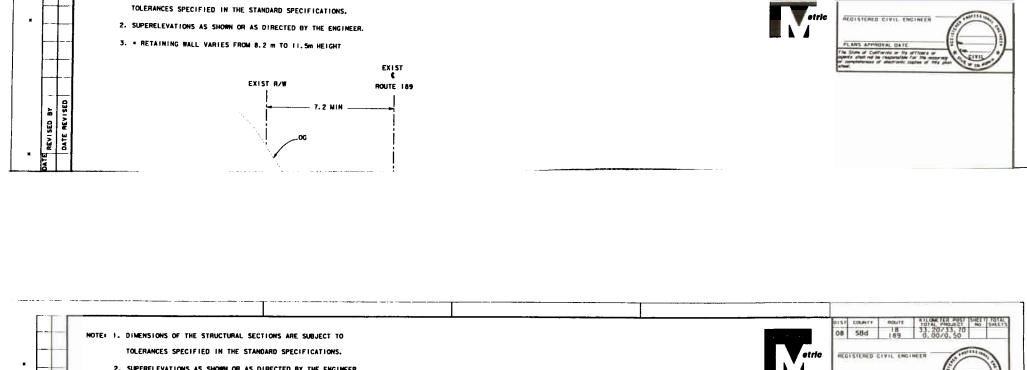


EXHIBIT B TYPICAL CROSS SECTIONS



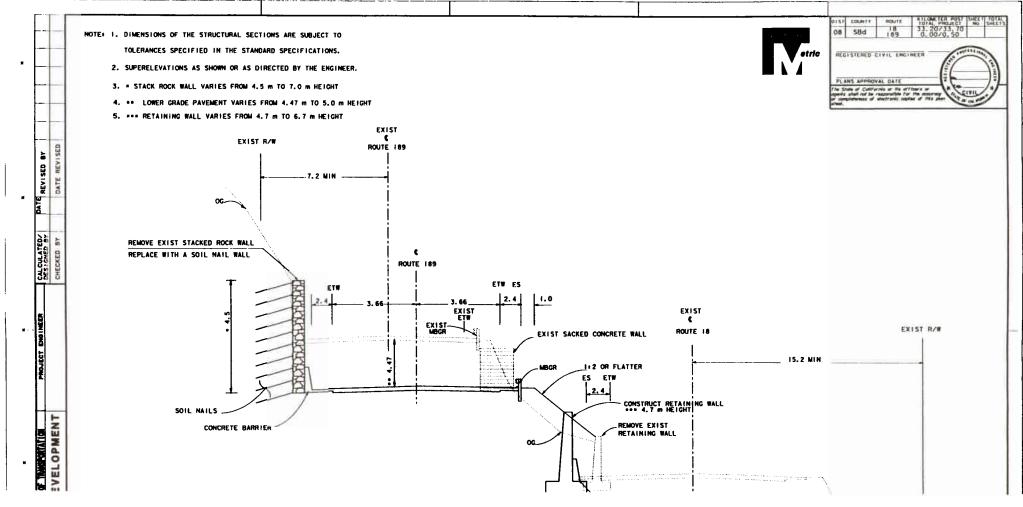


EXHIBIT C PRELIMINARY COST ESTIMATES



08-SBd-18-KP 33.20 / 33.70 08-SBd-189-KP 0.00 / 0.50 EA 1A900K

Type of Estimate :	:	PSR

Program Code:

PIP Number: 2417

PROJECT DESCRIPTION: Stabilize Slope and Roadway

LIMITS: Near Rim Forest, In San Bernardino County

From Junction Route 18 and Route 189 to 0.5 Km East of Junction

PROPOSED IMPROVEMENTS: Reconstruct slopes, replace stacked wall, widen lane and shoulder widths

on Route 189, and construct Retaining wall on Route 18

Alternative: Alternative 1

ROADWAY ITEMS	\$	4,590,000
STRUCTURE ITEMS	\$_	0
SUBTOTAL CONSTRUCTION	\$	4,590,000
RIGHT OF WAY	\$ _	23,000
TOTAL PROJECT COST	\$	4,613,000

Prepared By:	Jennifer McHa	Date: July 15, 2002
Checked By	Dat Wong	Date

I. ROADWAY ITEMS	QUANTITY	UNIT	UNIT PRICE	UNIT COST	SECTION
SECTION 1. Earthwork					
Roadway Excavation	12300	m^3	\$30	\$369,000	
Structural Excavation (Retaining wall)	1105	m^3	\$30	\$33,150	
Structure Excavation (Soil Nail Wall)	700	m^3	\$175	\$122,500	
Structural Backfill (Retaining wall)	1420	m^3	\$40	\$56,800	
Structural Backfill (Soil Nail Wall)	410	m^3	\$150	\$61,500	
Imported Borrow	1000	m^3	\$50	\$50,000	
Clearing & Grubbing	1	LS	\$20,000	\$20,000	
Develop Water Supply (5% -10% Roadway Excavation)	1	LS	\$36,900	\$36,900	
			Total Earthwork Se	ction	\$749,850
SECTION 2. Structural Section					
Asphalt Concrete Pavement	1800	tonne	\$70	\$126,000	
Aggregate Base	1500	m^3	\$40	\$60,000	
Aggregate Subbase	1800	m^3	\$30	\$54,000	
			Total Structural Sec	tion	\$240,000
SECTION 3. Drainage					
Large Drainage Facilities	0	LS	\$0	\$0	
Storm Drains	0	LS	\$0	\$0	
Pumping Plants	0	LS	\$0	\$0	
Project Drainage (minor drainage modifications)	1	LS	\$70,000	\$70,000	
			Total Drainage Sect	ion	\$70,000

Sheet 2 of 6

	QUANTITY	UNIT	UNIT PRICE	UNIT COST	SECTION COST
SECTION 4. Specialty Items					
Environmental Mitigation Cost	1	LS	\$300,000	\$300,000	
Structure Concrete (Soil Nail Wall)	84	m^3	\$750	\$63,000	
Soil Nail Wall (facing)	672	m^2	\$550	\$369,600	
Soil Nail Assembly	96	m	\$100	\$9,600	
Remove Concrete Retaining Wall	120	m^3	\$100	\$12,000	
Minor Concrete (Minor Structures)	613	m^3	\$650	\$398,450	
Remove Stacked Rock Wall	1	LS	\$10,000	\$10,000	
Remove Metal Beam Guardrail	200	m	\$30	\$6,000	
Remove Base and Surfacing	1,000	m^2	\$ 35	\$35,000	
Remove Trees	20	EA	\$1,000	\$20,000	
Remove AC dikes	200	m	\$ 15	\$3,000	
Place AC dikes	200	m	\$30	\$6,000	
Concrete Barrier	106	m	\$150	\$15,900	
Construct Metal Beam Guardrail	200	m	\$70	\$14,000	
Storm Water Pollution Prevention Plan	1	LS	\$100,000	\$100,000	
Landscaping	1	LS	\$30,000	\$30,000	
Erosion Control	1	LS	\$20,000	\$20,000	
Detour	1	LS	\$100,000	\$100,000	
Temporary easement	LS	LS	\$200,000	\$200,000	
		<u>To</u>	tal Specialty Item	<u>s.</u>	\$1,712,650
SECTION 5. Traffic Items					
Construction Area Signs	1	LS	\$20,000	\$20,000	
Temporary Traffic Delineation	1	LS	\$50,000	\$50,000	
Traffic Control Systems	1	LS	\$100,000	\$100,000	
Traffic Management Plan	1	LS	\$150,000	\$150,000	
Striping	1,000	М	\$30	\$30,000	

Total Traffic Items	\$350,000
SUBTOTAL SECTIONS 1-6	\$3,122,400

					UNIT COST	SECTION COST
SECTION 6. Minor Items						
Subtotal Sections 1-5		\$ 3,122, 40 0	×	0.05	\$156,120	
			TOTAL MINOR IT	EMS		\$156,120
SECTION 7. Roadway Mobiliza	ation					
Subtotal Sections 1-5		\$3,122,400				
Minor Items		\$156,120				
	SUM	\$3,278,520	x	0.1	\$327,852	
			TOTAL ROADWA	Y MOBILIZATION		\$327,852
SECTION 8. Roadway Addition Supplemental	ns					
Subtotal Sections 1-5		\$ 3,122, 40 0				
Minor Items		\$156,120				
	SUM	\$3,278,520	×	0.05	\$163,926	
Contingencies						
Subtotal Sections 1-5		\$3,122,400				
Minor Items		\$156,120				
	SUM	\$3,278,520	x	0.25	\$819,630	
			TOTAL ROADWA	Y ADDITIONALS		\$983,556
			TOTAL ROADWA			\$4,589,928
				ROUND OFF TO:		\$4,590,000

Sheet 4 of 6

II. STRUCTURES ITEMS

	No.1	No.2	No.3	No.4
Bridge Name				
Structure Type				
Width in meters-out to out	0	0	0	0
Span Length in meters	0	0	0	0
Total Area in square meters	0	0	0	0
Footing Type (pile/spread)			-	
Cost Per square meters	\$0	\$0	\$0	\$0
SUBTOTAL FOR STRUCTURE	\$0	\$0	\$0	\$0
Related Connectors	\$0	\$0	\$0	\$0
Railroad Related Cost	\$0	\$0	\$0	\$0
Subtotal	\$0	\$0	\$0	\$0
10% Mobilization	\$0	\$0	\$0	\$0
25% Contingency	\$0	\$0	\$0	\$0
Remove old Bridge	\$0	\$0	\$0	\$0
TOTAL COST FOR STRUCTURE	\$0	\$0	\$0	\$0
	PAGE SUBTOTAL	- STRUCTURES	ITEMS	\$0

COMMENTS:	ROUND OFF TO:	\$0

Estimate Prepared By :

Jennifer McHa

Phone #
Date

(909) 383-6317 7/15/2002

Sheet 5 of 6

III. RIGHT OF WAY

Right of Way estimates should consider the probable highest and best use and type and intent of improvements at the time of acquisition.

Assume acquisition including utility relocation occurs at the right of way certification milestone as shown in the Funding and Scheduling Section of the PSR. For further guidance see Chapter i, Caltrans, Right of Way Procedural Handbook.

		Current Value	Escalated Rate	Escalate Value
Acquisition, including Excess Lands,				74.40
Damages and Goodwill		\$0		
Utility Relocation (State share)		\$22,500		
Clearance/Demolition		\$0		
RAP		\$0		
Title and Escrow Fees		\$0		
Condemnation Cost				
TOTAL RIGHT OF WAY:		\$22,500		
TOTAL ESCALATED VALUE:				
	ROUND OFF TO:	\$23,000		

Estimate Prepared By :

Jennifer McHa

Phone #

<u>(909) 383-6317</u>

Date

7/15/2002



08-SBd-18-KP 33.20 / 33.70 08-SBd-189-KP 0.00 / 0.50 EA 1A900K

Type	of	Estimate:	PSR

Program Code:

PIP Number:

2417

PROJECT DESCRIPTION:

Stabilize Slope and Roadway

LIMITS:

Near Rim Forest, In San Bernardino County

From Junction Route 18 and Route 189 to 0.5 Km East of Junction

PROPOSED IMPROVEMENTS:

Reconstruct slopes, replace stacked rock wall, widen lane and shoulder widths

on Route 189, and Construct Retaining wall on Route 18

Alternative:

Alternative 2

ROADWAY ITEMS	\$	4,780,000
STRUCTURE ITEMS	\$_	0
SUBTOTAL CONSTRUCTION	\$	4,780,000
RIGHT OF WAY	\$_	23,000
TOTAL PROJECT COST	\$	4,803,000

Prepared By:	Jennifer McHa	Date: July 15, 2002
Check By	Dat Wong	Date

I. ROADWAYITEMS	QUANTITY	UNIT	UNIT PRICE	UNIT COST	SECTION COST
SECTION 1. Earthwork					
Roadway Excavation	1020	m^3	\$30	\$30,600	
Structural Excavation (Retaining wall)	1105	m^3	\$30	\$33,150	
Structure Excavation (Soil Nail Wall)	700	m^3	\$175	\$122,500	
Structural Backfill (Retaining wall)	2438	m^3	\$40	\$97,520	
Structural Backfill (Soil Nail Wall)	147	m^3	\$150	\$22,050	
Imported Material	3000	m^3	\$100	\$300,000	
Clearing & Grubbing	1	LS	\$20,000	\$20,000	
Develop Water Supply (5% -10% Roadway Excavation)	1	LS	\$3,060	\$3,060	
			Total Earthwork Se	ction	\$628,880
SECTION 2. Structural Section					
Asphalt Concrete Pavement	1800	tonne	\$70	\$126,000	
Aggregate Base	1500	m^3	\$40	\$60,000	
Aggregate Subbase	1800	m^3	\$30	\$54,000	
			Total Structural Se	ction	\$240,000
SECTION 3. Drainage					
Large Drainage Facilities	0	LS	\$0	\$0	
Storm Drains	0	LS	\$0	\$0	
Pumping Plants	0	LS	\$0	\$0	
Project Drainage (minor drainage modifications)	1	LS	\$70,000	\$70,000	
			Total Drainage Sec	tion	\$70,000

Sheet 2 of 6

	QUANTITY	UNIT	UNIT PRICE	UNIT COST	SECTION COST
SECTION 4. Specialty Items					
Environmental Mitigation Cost	1	LS	\$300,000	\$300,000	
Structure Concrete (Soil Nail Wall)	33	m^3	\$750	\$24,750	
Soil Nail Wall (facing)	235	m^2	\$500	\$117,500	
Soil Nail Assembly	100	m	\$100	\$10,000	
Minor Concrete (Minor Structures)	2,300	m^3	\$500	\$1,150,000	
Remove Concrete Retaining Wall	120	m^3	\$100	\$12,000	
Remove Stack Rock Wall	LS	LS	LS	\$10,000	
Remove Metal Beam Guardrail	200	LS	\$30	\$6,000	
Remove Base and Surfacing	1,000	m^2	\$35	\$35,000	
Remove Trees	20	EA	\$1,000	\$20,000	
Remove AC dikes	200	LS	\$20	\$4,000	
Place AC dikes	200	LS	\$30	\$6,000	
Concrete Barrier	106	m	\$150	\$15,900	
Construct Metal Beam Guardrail	200	LS	\$60	\$12,000	
Storm Water Pollution Plan (3% to 4% of Construction Cost)	1	LS	\$100,000	\$100,000	
Landscaping	1	LS	\$30,000	\$30,000	
Erosion Control	1	LS	\$10,000	\$10,000	
Temporary Easement	LS	LS	\$200,000	\$200,000	
		<u>To</u>	tal Specialty Item	15	\$2,063,160
SECTION 5. Traffic Items					
Construction Area Signs	1	LS	\$20,000	\$20,000	
Temporary Traffic Delineation	1	LS	\$30,000	\$30,000	
Traffic Control Systems	1	LS	\$70,000	\$70,000	
Traffic Management Plan	1	LS	\$100,000	\$100,000	
Striping	1,000	М	\$30	\$30,000	

Total Traffic Items	\$250,000
SUBTOTAL SECTIONS 1-6	\$3,262,030

					UNIT COST	SECTION COST
SECTION 6. Minor Items						
Subtotal Sections 1-5		\$3,252,030	x	0.05	\$162,602	
			TOTAL MINOR IT	TEMS		\$162,602
SECTION 7. Roadway Mobilization						
Subtotal Sections 1-5		\$3,252,030				
Minor Items		\$162,602				
	SUM	\$3,414,632	x	0.1	\$341,463	
			TOTAL ROADWAY MOBILIZATION			\$341,463
SECTION 8. Roadway Additions Supplemental						
Subtotal Sections 1-5		\$3,252,030				
Minor Items		\$162,602				
	SUM	\$3,414,632	×	0.05	\$170,732	
Contingencies						
Subtotal Sections 1-5		\$3,252,030				
Minor Items		\$162,602				
	SUM	\$3,414,632	×	0.25	\$853,658	
			TOTAL ROADWAY ADDITIONALS			\$1,024,389
			TOTAL ROADWAY ITEMS (Total of Sections 1-8)			\$4,780,484
				ROUND OFF TO:		\$4,780,000

Estimate Prepared By :

Jennier WcHa

Phone# Date (909) 383-6317 7/15/2002

Sheet 4 of 6

II. STRUCTURES ITEMS

Bridge Name				
Structure Type				
Width in meters-out to out	0	0	0	0
Span Length in meters	0	0	0	o
Total Area in square meters	0	0	0	0
Footing Type (pile/spread)		-	_	_
Cost Per square meters	\$0	\$0	\$0	\$0
SUBTOTAL FOR STRUCTURE	\$0	\$0	\$0	\$0
Related Connectors	\$0	\$0	\$0	\$0
Railroad Related Cost	\$0	' \$0	\$0	\$0
Subtotal	\$0	\$0	\$0	\$0
10% Mobilization	\$0	\$0	\$0	\$0
25% Contingency	\$0	\$0	\$0	\$0
Remove old Bridge	\$0	\$0	\$0	\$0
TOTAL COST FOR STRUCTURE	\$0	\$0	\$0	\$0
PAGE SUBTOTAL - STRUCTURES ITEMS			\$0	

COMMENTS: ROUND OFF TO: \$0

Estimate Prepared By :

Jennifer McHa

Phone # Date (909) 383-6317 7/15/2002

Sheet 5 of 6

III. RIGHT OF WAY

Right of Way estimates should consider the probable highest and best use and type and intent of improvements at the time of acquisition.

Assume acquisition including utility relocation occurs at the right of way certification milestone as shown in the Funding and Scheduling Section of the PSR. For further guidance see Chapter I, Caltrans, Right of Way Procedural Handbook.

	Current Value
Acquisition, including Excess Lands, Damages and Goodwill	\$0
Utility Relocation (State share)	\$22,500
Clearance/Demolition	\$0
RAP	\$0
Title and Escrow Fees	\$0
Condemnation Cost	
TOTAL RIGHT OF WAY:	\$22,500
TOTAL ESCALATED VALUE:	

ROUND OFF TO :

Estimate Prepared By :

Jennifer McHa

Phone # Date

\$23,000

(909) 383-6317 7/15/2002

Sheet 6 of 6

EXHIBIT D RIGHT OF WAY DATA SHEET

То:	MR.GARY WINTERGERST	Date: February 19, 2002 08-Riv-18-KP 33.47/33.55, PM 20.8/20.85 08-SBd-189-KP 0.29/0.37		
	ATTENTION MR.OWEN SPENCER	PM 0.18/0.23 EA 1A900K Project Description: Reconstruct Slopes, Stack Wall on Rte 189 & Extend Retaining Wall on Rte 18		
From:	Mohamed-Sami Abdelgwad R/W Planning and Management			
Subjec	t: Current Estimated Right of Way Costs			
We have	re completed an estimate of the right of way costs for eived from you <u>January 04, 2002</u> , and the followin	the above-referenced project based on maps g assumptions and limiting conditions:		
[] 1.	The mapping did not provide sufficient detail to dete required.	rmine the limits of the right of way		
[] 2.	The transportation facilities have not been sufficient determine the damages to any of the remainder part	ly designed so that the estimator could cels affected by the project.		
[]3.	Additional right of way requirements are anticipated, but are not defined due to the preliminary nature of the early design requirements.			
[]4.	We have determined there are no right of way functional involvements in the proposed project at this time, as designed.			
freeway (PYPSC	Way Lead Time will require a minimum of 6 nents (PYPSCAN node No. 224), necessary environagreements have been approved. From the date of AN node No. 225), we will require a minimum of cect. Either of these actions may reflect adversely on y.	mental clearance has been obtained, and receipt of final right of way requirements months prior to the date of certification of		
*TOTAL	PROJECT HOURS FOR R/W:100			
	ALL WORK TO BE COMPLETED WITHIN THE EXIS OF THE PROJECT CHANGES THEN A NEW RIGH REQUIRED.	STING RIGHT OF WAY, IF THE SCOPE T OF WAY DATA SHEET WILL BE		

Attachments:

[XX] [XX] [XX] Right of Way Data Sheet Utility Information Sheet

Railroad Information Sheet

To:	MR.GARY WINTERGERST	Date: February 19, 2002		
	ATTENTION MR.OWEN SPENCER	08-Riv-18-KP 33.47/33.55, PM 20.8/20.85 08-SBd-189-KP 0.29/0.37 PM 0.18/0.23 EA 1A900K Project Description: Reconstruct Slopes, Stack Wall on Rte 189 & Extend Retaining		
From:	Mohamed-Sami Abdelgwad R/W Planning and Management	Wall on Rte 18		
Subject	Current Estimated Right of Way Costs			
We have	e completed an estimate of the right of way costs for ived from you <u>January 04, 2002</u> , and the following	the above-referenced project based on maps assumptions and limiting conditions:		
[] 1.	The mapping did not provide sufficient detail to deter required.	mine the limits of the right of way		
[]2.	The transportation facilities have not been sufficiently determine the damages to any of the remainder parc	designed so that the estimator could els affected by the project.		
[]3.	 Additional right of way requirements are anticipated, but are not defined due to the preliminary nature of the early design requirements. 			
[]4.	[] 4. We have determined there are no right of way functional involvements in the proposed project at this time, as designed.			
freeway (PYPSC	Way Lead Time will require a minimum of 6 ments (PYPSCAN node No. 224), necessary environmagreements have been approved. From the date of rAN node No. 225), we will require a minimum of 4 ct. Either of these actions may reflect adversely on the second se	nental clearance has been obtained, and receipt of final right of way requirements		
*TOTAL	PROJECT HOURS FOR R/W:100			

NOTE: ALL WORK TO BE COMPLETED WITHIN THE EXISTING RIGHT OF WAY, IF THE SCOPE OF THE PROJECT CHANGES THEN A NEW RIGHT OF WAY DATA SHEET WILL BE REQUIRED.

Attachments:

Right of Way Data Sheet Utility Information Sheet Railroad Information Sheet [XX]

[XX] [XX]

Ţ	o :	MR.GARY WINTERGERST ATTENTION MR.OWEN SPENCER	Date: February 19, 2002 08-Riv-18-KP 33.47/33.55, PM 20.8/20.85 08-SBd-189-KP 0.29/0.37 PM 0.18/0.23 EA 1A900K Project Description: Reconstruct Slo Stack Wall on Rte 189 & Extend Reta	pes, aining Wall
Fr	om:	Mohamed-Sami Abdelgwad	on Rte 18	
Sı	ubject:	Right of Way Data		
1.	Righ	t of Way Cost Estimate:		
	A.	Acquisition, including Excess Lands Damages, Goodwill, Major Rehabilitation, and Environmental Permits to Enter	Value \$	0.00
	В.	Acquisition of Offsite Mitigation. None Requested.	. \$	0.00
	C.	Utility Relocation (State share)	\$ 22	,500.00
	D.	RAP	\$	0.00
	E.	Clearance/Demolition	\$	0.00
	F.	Title and Escrow Fees	\$	0.00
	G.	Project Permit Fees	\$	0.00
	H.	Condemnation Costs	\$	0.00
	t.	Total R/W Estimate:	\$22,50	00.00
	J.	Construction Contract Work	\$	0.00
1a.	Real	Property Services:		
	A.	Routine Maintenance (Object Code 058)	\$	0.00
	В.	Advertising Costs (Object Code 039)	\$	0.00
	C.	Utility Costs (Object Code 002)	\$	0.00
	D.	Total Real Property Services Estimate:	\$	0.00
2.	Anticij	pated Pypscan Date of Right of Way Certification <u>Decemb</u>	er, 2002	
3.	Parce	Data:		
	Type X A B C D E XXX F XXX	2 2 -3 -4 -4	RR Involvement C&M Agrmt Svc Contract Lic/RE/Clauses Government Lands Number of Parcels Misc. R/W Work RAP Displ Clear/Demo Const Permits Condemnation Permits to Enter-EN	No 0 0 0 No 0
Area		Right of Way: S.F. 0 M² Excess: S.F. 0 M² Land Parcels: 0	0	V

08-Riv-18-KP 33.47/33.55, PM 20.8/20.85 08-SBd-189-KP 0.29/0.37 PM 0.18/0.23 EA 1A900K

	Yes No X (If yes, explain.)
5.	Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, etc.). No Right of way requiredX
	Type and Number of Parcels: Partial Full Easements Permanent
6.	Is there an effect on assessed valuation? Yes Not Significant No _X (If yes, explain.)
7.	Are utility facilities or rights of way affected? Yes X No (If yes, attach Utility Information Sheet, Exhibit 4-EX-5.)
8.	Are railroad facilities or rights of way affected? Yes NoX (If yes, attach Railroad Information Sheet, Exhibit 4-EX-6.)
9.	Were any previously unidentified sites with hazardous waste and/or material found? Yes None Evident _X (If yes, attach memorandum per Procedural Handbook Chapter 4, Section 4.01.10.00.)
10.	Are RAP displacements required? Yes No _X_ (If yes, provide the following information.)
	No. of single family No. of business/nonprofit
	No. of multi-family No. of farms
	Based on Draft/Final Relocation Impact Statement/Study dated, it is anticipated that sufficient replacement housing (will/will not) be available without Last Resort Housing.
11.	Are there material borrow and/or disposal sites required? Yes No _X_ (If yes, explain.) None Requested.
12.	Are there potential relinquishments and/or abandonments? Yes No _X (If yes, explain.)
13.	Are there existing and/or potential Airspace sites? Yes No _X (If yes, explain.)
14.	Indicate the anticipated Right of Way schedule and lead time requirements. (Discuss if District proposes less than PMCS lead time and/or if significant pressures for project advancement are anticipated.)
	PYPSCAN lead time (from Mans to R/W to project certification) 6 months

4. Are there major items of construction contract work?

08-Riv-18-KP 33.47/33.55, PM 20.8/20.85 08-SBd-189-KP 0.29/0.37 PM 0.18/0.23 EA 1A900K

15. Is it anticipated that Yes X No (all Right of Way work will be perforn If no, discuss.)	ned by CALTRANS staff?
Evaluations prepared by:		\ .
Right of Way:	Name MOHAMED-SAMI ABDELG	NAD February 19, 2002
Railroad:	Name Bat Borate BETTY BOBOSIK	Date February 19, 2002
Utilities:	Name LAWRENCE KELLY	Date February 19, 2002
Government Lands:	Name ANTHONY RIZZI	Date February 19, 2002
Property Management:	Name HMML MA	Parc Date February 19, 2002
Reviewed By:	1001	
Project Coordinator	Name KATHY SJIM	Date February 19, 2002
Recommended for approv	al by:	1 - 6 / 8
		MOHAMED-SAMI ABDELGWAD
	•	Right of Way Agent Planning and Management
		San Bernardino Office
		Southern Right of Way Region
probable Highest and Best	I this Right of Way Data Sheet and a Use, estimated values, escalation r ng conditions set forth, and I find this	all supporting information. I certify that the ates, and assumptions are reasonable and Data Sheet complete and current.
		GEORGE I. PINK JR Right of Way Project Delivery Manager San Bernardino Office Southern Right of Way Region

cc: Program Manager Project Manager This utility estimate was prepared using "project specific" data and unit values. This information is not to be utilized for the updating or preparation of this, or any other Right of Way Cost Report or Utility Information Sheet.

08-Riv-18-KP 33.47/33.55, PM 20.8/20.85 08-SBd-189-KP 0.29/0.37 PM 0.18/0.23 EA 1A900K

UTILITY INFORMATION SHEET

1. Name of utility companies involved in project:

Southern California Edison Company Verizon Crestline Sanitation District Falcon Cable Systems

Southern California Gas Company Crestline Lake Arrowhead Water Crestline Village Water District Lake Arrowhead Community Service District

2. Types of facilities and agreements required:

Southern California Edison Company-Overhead Electric Southern California Gas Company-Underground Gas Verizon-Overhead Phone Lines Crestline Lake Arrowhead Water-Underground Water Crestline Sanitation District-Sewer Crestline Village Water District-Underground Water Falcon Cable Systems-Overhead Cable Lake Arrowhead Community Services District-Sewer

3. Additional information concerning utility involvement on this project. Is there any special circumstances/facilities requiring additional lead time?

This project proposes to reconstruct slopes, stack rock, construct a crib wall, and install metal beam guard rails on State Route 189 and extend the retaining wall on the north side of State Route 18 highway to stabilize the eroded slope. Depending on their exact location 2 or 3 power poles will be relocated. These poles also have phone and cable TV lines on them. Should the scope of the project change to include any further excavation potholing or relocations may become necessary.

Estimate to relocate 3 power poles @ \$15,000.00 per pole = \$45,000.00 State Liability (50%) = \$22,500.00

Potholing costs: Phase 1 funding:

None.

5. PMCS Input Information

Total estimated cost of State's obligation for utility relocation on this project: (Phase 9 funding) \$22,500.00

Utility Involvement
U4-1 1 U5-7 5
-2 2 -8 -9 3

Prepared By:

Right of Way Utility Estimator

Date <u>January 31, 2002</u>

08-Riv-18-KP 33.47/33.55, PM 20.8/20.85 08-SBd-189-KP 0.29/0.37 PM 0.18/0.23 EA 1A900K

PROPERTY MANAGEMENT/EXCESS LAND INFORMATIONAL SHEET

WBS CODE	WBS ACTIVITY	NUMBER OF PARCELS	HOURS	COST	
	PROPERTY MANAGEMENT		IOT APPLICAI	BLE	х
195.40.05	Fair Market Rent Determinations (Residential)				
195.40.10	Fair Market Rent Determinations (Non-Residential)				
195.40.15	Regular Rental Property Management Historic House				
195.40.20	Property Maintenance and Rehabilitation (Rental Property) Historic House				
195.40.25	Property Maintenance and Rehabilitation (Non-Rental Property)				
195.40.30	Hazardous Waste and Hazardous Materials				
195.40.35	Transfer of Property to Clearance Status				
270.25.03	Secure Lease for Resident Engineer's Office Space or Trailer				
		Subtotal			
	EXCESS LAND	N	OT APPLICAE	BLE _	<u> x</u>
195.45.05	Excess Land Inventory				
195.45.10	Excess Land Appraisal and Public Sale Estimate				
195.45.15	Excess land Inventory ("Roberti Bill)				
195.45.20	Excess Land Sales to \$15,000				
195.45.25	Excess Land Sales from \$15,001 to \$500,000			 	
195.45.30	Excess Land Sales over \$500,000				
195.45.35	CTC and AAC Coordination				
		Subtotal			
	TOTAL H	IOURS (ONLY	")		

Date:

February 19, 2002

TERRENCE K. MOORE

Property Management

Excess Lands

08-Riv-18-KP 33.47/33.55, PM 20.8/20.85 08-SBd-189-KP 0.29/0.37 PM 0.18/0.23 EA 1A900K

RAILROAD AND GOVERNMENT LANDS INFORMATION SHEET

1.	Describe railroad facilities or rights of way affected.
	None.
2.	When branch lines or spurs are affected, would acquisition and/or payment of damages to businesses and/or industries served by the railroad facility be more cost effective than construction of a facility to perpetuate the rail service? Yes No _X_ (If yes, explain.)
3.	Discuss types of agreements and rights required from the railroads. Are grade crossings requiring service contracts, or grade separations requiring construction and maintenance agreements involved?
	None.
4.	Remarks (non-operating railroad right of way involved?):
5.	Is Government Lands involved? Yes No _X_
	If yes, number of parcelsAgency Name and Explanation:
6.	PMCS Input Information
	RR Involvement C&M Agreement SVC Contract LIC/RE/Clauses Government Lands No Number parcels No
Prep	ared By: Bolosik BETTY BOBOSIK Right of Way Railroad Coordinator
⊃repa	ared By: ANTHONY RIZXI Pinkt of Way Configurator

EXHIBIT E PRELIMINARY ENVIRONMENTAL ANALYSIS REPORT



Preliminary Environmental Analysis Report

Project Information

District 08 County Sbd Route 18 & 189

Kilometer Post (Post Mile) 33.47/33.55 (20.80/20.85) & 0.00/0.37 (0.00/0.23) EA 1A900K

Project Title: Reconstruct slopes and stack wall, and widen lane and shoulder widths on Rte 189; and extend retaining wall on Rte 18

Project Manager Gary Wintergerst Phone # 383 - 6334

Project Engineer Dat Wong Phone # 383 - 1062

Environmental Project Manager Ryan Roberts Phone # 383 - 1595

Environmental Planner Generalist: Jason Walsh Phone # 383 - 7555

Project Description

Purpose and Need: The existing stacked rock wall located along the edge of travel way on SR 189 has been deteriorating over time. The proposed reconstruction of this wall will help prevent rocks from falling apart and onto the roadway. As part of this project, the existing lane and shoulder widths on SR 189 will be widened to meet current design standards.

The existing concrete retaining wall on the north side of SR 18 will also be extended as necessary to prevent failure of the existing slope between SR 189 and SR 18. Slope erosion is causing the loss of lateral support to SR 189. Extending retaining walls and providing soil retention methods will prevent the continuous erosion of the slope.

Description of work: The proposed project will reconstruct slopes, and replace existing stacked rock wall on SR 189, restore poorly supported metal beam guardrail, and widen existing lane and shoulder widths to the current standards within the project limits. The proposed project will also extend an existing concrete retaining wall on the north side of SR 18 to stabilize the eroded slope between SR 189 and SR 18.

Alternatives:

Alternative 1 – Lower the existing pavement surface of SR 189 five (5) meters from the original ground, and widen the existing pavement width to include two 3.6-meter wide lanes and two 2.4-meter shoulders for a total width of 12 meters. Reconstruct the existing stacked rock wall and existing metal beam guardrailing on SR 189, and extend existing Type 1 retaining wall on SR 18.

The preliminary estimated cost for alternative 1 is \$2,783,000.

Alternative 2 – Reconstruct existing stacked rock wall and metal beam guardrailing, construct new retaining wall, and widen existing pavement width of SR189 to include two 3.6-meter wide lanes and two 2.4 meters shoulders for a total width of 12 meters. Remove existing Type 1 and sack concrete walls between Route 189 and Route 18, and construct a mechanically stabilized embankment (MSE) wall or higher Type 1 wall.

The preliminary estimated cost for alternative 2 is \$3,391,000.

Alternative 3 – No build.

Anticipated Environmental Approval

<u>CEQA</u>	<u>NEPA</u>
Categorical/Statutory Exemption	Categorical Exclusion
Negative Declaration / focused ND	Finding of No Significant Impact
Environmental Impact Report	Environmental Impact Statement

The anticipated environmental document for the proposed project is an Initial Study/Environmental Assessment. It is estimated that the environmental document will require 20 months to complete.

PSR Summary Statement

An Initial Study/Environmental Assessment (IS/EA) will be required in compliance with Division 13, Public Resources Code (State), and 42 U.S.C. 4332(2) (C) (Federal). A Mitigated Negative Declaration and Finding of No Significant Impact (ND/FONSI) is anticipated.

Environmental issues on this project include but are not limited to those in the following table:

Resource	Study Area / Impact
Southern Rubber Boa	Project limits of construction
National Register of Historical Places	SR-18 is eligible for listing as a district.
Visual Resources	Removal of vegetation, and new construction will require visual assessment.
Community Impact Study	Required due to potential closure of road

Permits from the following agencies are anticipated:

• State Water Resources Control Board (NPDES)

Total costs to mitigate environmental impacts and meet permit requirements are estimated at \$235,000.

Special Considerations

Vegetation removed from any properties found to be historically significant may become a sensitive issue.

Anticipated Project Mitigation

For this project, mitigation could include exclusion fencing for Southern Rubber Boa, habitat replacement, and visual effects. The estimated mitigation cost for this project is \$235,000.

Disclaimer

This report is not an environmental document. Preliminary analysis, determinations, and estimates of mitigation costs are based on the project description provided in this report. The estimates and conclusions provided are approximate and are based on cursory analysis of probable effects. This report is to provide a preliminary level of environmental analysis to supplement the Project Study Report. Changes in project scope, alternatives, or environmental laws will require a re-evaluation of this report.

Reviewed by:	
Summer Buller	Date: <u>5/3/02</u>
Environmental Branch Chief	7-1-
my Water	Date: 5/6/02
Project Manager	

Environmental Technical Reports or Studies Required

	Study	Document	N/A
Community Impact Study Farmland		٥	•
Section 4(f) Evaluation	0	0	
Visual Resources		ā	<u> </u>
Water Quality	<u> </u>	<u> </u>	
Floodplain Evaluation		٥	
Noise Study	٥	٥	
Air Quality Study Paleontology	0 0	0	
Wild and Scenic River Consistency		Ö	
Cumulative Impacts		ä	ā
Cultural			
ASR		٥	<u> </u>
HSR		<u>a</u>	=
HASR	<u> </u>	0	
HPSR Section 106 / SHPO	<u> </u>	<u> </u>	0.0
Native American Coordination	0	<u> </u>	
Other	_	_	_
Finding of Effect		٥	
Data Recovery Plan	Ō	0	
Hazardous Waste			
ISA (Additional)			
PSI	•		
Other	0	0	
Biological			
Endangered Species (Federal)		o.	_
Endangered Species (Federal) Endangered Species (State)	=	ā	<u>-</u>
Species of Concern (CNPS, USFS, BLM, S, F)	=	ā	ō
Biological Assessment (USFWS, NMFS, State)			
Wetlands	O		
Invasive Species	<u> </u>	<u> </u>	ū
Natural Environment Study	0		<u> </u>
NEPA 404 Coordination	•		
Other	٥	٥	
Permits			
401 Permit Coordination		۵	
404 Permit Coordination	ā	ū	
1601 Permit Coordination	<u> </u>		
City/County Coastal Permit Coordination	0		
State Coastal Permit Coordination	<u> </u>	0	
NPDES Coordination		0	<u> </u>
US Coast Guard (Section 10)	۵		

Discussion of Technical Review

The following comments apply to proposed alternatives 1 and 2:

Socio-economic and Community Effects: A Community Impact Analysis may be required to address how the proposed closure and/or detours on SR-189 during road construction will affect the surrounding communities, citizens and businesses.

Farmlands: No farmlands are located within the project limits.

4(f) Impacts: No 4(f) impacts are anticipated at this time.

<u>Visual Effects</u>: A visual assessment will be required and should include potential project effects and any appropriate mitigation. Design of the upgraded guardrail, widened shoulder and extended retaining wall may require and include visual impact mitigation. Tree removal must be minimized to abate the effect on the visual setting. Vegetation removed from any properties found to be historically significant may become a sensitive issue.

Water Quality and Erosion: The site should be evaluated for potential water quality impact because of erosion problem at the site.

<u>Floodplain:</u> A floodplain evaluation report summary may be required.

Noise Study: No residences are adjacent to the project. It is anticipated that a noise study will not be required.

Air Quality Impact: This project will not create any significant air quality impact.

<u>Wild and Scenic River</u>: Based on scoping level review, there are no currently designated or candidate Wild and Scenic rivers that are adjacent to or would be impacted by the project. Further consultation with the United States Forest Service (USFS) may be required.

<u>Cultural Resources:</u> SR-18 (PM 17.9/21.7) has been determined eligible for listing as a district on the National Register of Historic Places (SHPO concurrence 10/5/01). However, the retaining wall (PM 20.80/20.85) in the project area of SR-18 is a non-contributor to the district. Also, this segment of SR-18 is an eligible California Scenic Highway (listed 1963), a San Bernardino County Scenic Road (1980) and a National Forest Scenic Byway (1990). The SR-189 project segment is part of the original 1915 alignment of the Rim of the World Highway. A recent records search, which includes both SR-18 and SR-189 highway segments was conducted for another project. The project area is located within the San Bernardino National Forest. An archaeological survey may be required for the project. The Area of Potential Effects must include all access roads, work areas and staging areas beyond the existing paved highway. A historic survey of resources related to the project may be required. Any subsequent changes in project scope may require additional archaeological or historical review.

<u>Paleontology:</u> Paleontological resources are unlikely to occur on this project.

Native American Coordination: No coordination is anticipated at this time.

<u>Hazardous Waste/Materials:</u> An Initial Site Assessment (ISA) will be required to address the potential for hazardous waste. The photographs of project site shows that there is no hazardous material at the vicinity of the project.

<u>Biological Resources</u>: The project is located in the range of Southern Rubber Boa, which is a state-listed threatened species. The habitat will require assessment and the construction areas may require pre-construction surveys and fencing to exclude Southern Rubber Boa.

Wetlands: No identifiable wetlands are located within the project limits.

<u>Invasive Pest Plant Species</u>: Executive Order 13112 requires that any federal action may not cause or promote the spread or introduction of invasive species. If Spanish Broom plant species is present in the project area, removal may be required.

Right-of-Way Relocation or Staging Area. No new right-of-way is indicated for this project. Material sites, disposal sites and construction staging must be identified prior to initiating environmental studies, and will require complete environmental evaluation as part of this project.

Mitigation: If the biological assessment determines the project to be potential Southern Rubber Boa habitat, then a preconstruction survey and exclusion fencing, as well as restoration of disturbed habitat, will be required. Visual impact mitigation may be required in the form of specialized landscaping for walls or replacement of disturbed vegetation. Reasonable mitigation costs for both biological and visual impacts are generally considered to be up to 3% of the project cost.

Non-mitigation requirements would include providing a Storm Water Pollution Prevention Plan (SWPPP)/Water Pollution Control Plan (WPCP) as required by the NPDES Permit. Typical preparation costs for SWPPP/WPCP plans range between \$2,000 to \$10,000. Implementing construction Best Management Practices (BMPs) as part of the SWPPP/WPCP will cost approximately 1% of the total construction cost.

No other mitigation costs are currently anticipated. In addition to the estimated mitigation amounts, the project will require the removal of vegetation along SR-189, which is likely to necessitate re-planting. All mitigation costs are summarized by type at the end of this PEAR on the Mitigation and Compliance Cost Estimate (Attachment A).

<u>Permits:</u> State Water Resources Control Board (NPDES) coordination will be required.

List of Preparers

Hazardous Waste Review By:	Tony Louka, Env. Engineering	Date	Feb 5, 2002
Biological Review By:	Kelly Cohen, Biological Studies	Date	Feb 27, 2002
Cultural Review By:	Christie Hammond, Cultural Studies Branch	Date	Feb 11, 2002
Visual Resources Review By:	Byron Strout, Landscape Architecture Branch	Date	Feb 4, 2002
Generalist Review By:	Paul Melocoton, Env. Studies Branch A	Date	Feb 27, 2002

Attachment A

PEAR Mitigation and Compliance Cost Estimate

PEAR Mitigation and Compliance Cost Estimate

ALTERNATIVE NO. 1

Dist.-Co.-Rte.-PM: <u>08-Sbd-18- 20.80/20.85 & 08-Sbd-189-PM 0.00/0.23</u>

EA: 1A900K

Project Description: Lower the existing pavement surface of SR 189 five (5) meters from the original ground, and widen the existing pavement width to include two 3.6-meter wide lanes and two 2.4-meter shoulders for a total width of 12 meters. Reconstruct the existing stack rock wall and existing metal beam guardrailing on SR 189, and extend existing Type 1 retaining wall on SR 18...

Person completing form/Dist. Branch.: Ryan M Roberts/Environmental Project Management

Project Manager: Gary Wintergerst Phone number: (909) 383-6334

Date: 4-30-02

		Mitigation		Compliance
	Project Feature ¹	Enviro. Obligation ²	Statutory Require.3	Permit & Agreement
Fish & Game 1601 Agreement				
Coastal Development Permit				
State Lands Agreement				
NPDES Permit				30
COE 404 Permit- Nationwide				
COE 404 Permit- Individual				
COE Section 10 Permit				
COE Section 9 Permit				
Other:				
Noise attenuation				
Special landscaping	83.5			
Archaeological	05.5			
Biological		83.5		
Historical		00.0		
Scenic resources				
Wetland/riparian				
Other:				
TOTAL (Enter zeros if no cost)	83.5	83.5	0	30

Costs are to be reported in \$1,000's.

Costs are to include all costs to complete the commitment including: capital outlay and staff support; cost of right-of-way or easements; long-term monitoring and reporting, and; any follow-up maintenance.

Mitigation Caltrans would normally do if not required by a permit or environmental agreement.

² Mitigation Caltrans would not normally do but is required by conditions of a permit or environmental agreement.

Mitigation Caltrans would not normally do and is not required by a permit or Enviro. agreement but is required by a law.

Non-mitigation Caltrans would not normally do but is required by conditions of a permit or agreement.

^{*}Prepare a separate form for each practicable alternative in the PSR.

PEAR Mitigation and Compliance Cost Estimate

ALTERNATIVE NO. 2

Dist.-Co.-Rte.-PM: <u>08-Sbd-18- 20.80/20.85 & 08-Sbd-189-PM 0.00/0.23</u>

EA: 1A900K

Project Description: Reconstruct existing rock wall and metal beam gaurdrailing, construct new retaining wall, and widen existing pavement width of SR189 to include two 3.6-meter wide lanes and two to 2.4 meters shoulders for a total width of 12 meters. Remove existing Type 1 and sack concrete walls between Route 189 and Route 18, and construct a mechanically stabilized embankment (MSE) wall or higher Type 1 wall.

Person completing form/Dist. Branch.: Ryan M Roberts/Environmental Project Management

Project Manager: Gary Wintergerst Phone number: (909) 383-6334

Date: 4-30-02

		Mitigation		Compliance		
	Project Feature ¹	Enviro. Obligation ²	Statutory Require. ³	Permit & Agreement ⁴		
Fish & Game 1601 Agreement						
Coastal Development Permit						
State Lands Agreement						
NPDES Permit				35		
COE 404 Permit- Nationwide						
COE 404 Permit- Individual						
COE Section 10 Permit						
COE Section 9 Permit						
Other:						
+						
Noise attenuation						
Special landscaping	100					
Archaeological						
Biological		100				
Historical						
Scenic resources						
Wetland/riparian						
Other:						
TOTAL (Enter zeros if no cost)	100	100	0	35		

Costs are to be reported in \$1,000's.

Costs are to include all costs to complete the commitment including: capital outlay and staff support; cost of right-of-way or easements; long-term monitoring and reporting, and; any follow-up maintenance.

¹ Mitigation Caltrans would normally do if not required by a permit or environmental agreement.

² Mitigation Caltrans would not normally do but is required by conditions of a permit or environmental agreement.

³ Mitigation Caltrans would not normally do and is not required by a permit or Enviro. agreement but is required by a law.

A Non-mitigation Caltrans would not normally do but is required by conditions of a permit or agreement.

^{*}Prepare a separate form for each practicable alternative in the PSR.

Attachment B

Resources by WBS Code

RÉSOURCES BY WBS CODE

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WBS Activity	EA:	Eny Proj Mgme Unit	Genalist Unit 169	Biologist Unit 168	Cultural C	Landscape Unit 340	Noted Air	Water Quality	Haz Waste Unit 332	Socio-Econ Specialist	Total Hours	Cumm. Sub	Cumm. PY's
0	PERFORM PROJECT MANAGEMENT	720		a de de A	• • 0			; · · · 0		7.7		720	
00.05	Project Management - PID Phase	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	A PARTO	r jarriga ya ya	The state of	V	*** U	- Froter o	3 7 U		120	720	**::. U.4
0.05.05	Project Iniation and Planning	40						 			40		 '
0.05.10	PID Phase Execution and Control	40				 		-			40		<u>'</u>
0.05.15	PID Phase Close Out	40						-			40		
0.10	Project Management PA&ED Phase										0		
0.10.05	PA&ED Phase Initiation and Planning	80									80		
0.10.10	PA&ED Execution and Control	120									120		r
00.10.15	PA&ED Phase Close Out	40									40	·	r
00.15	Respond to Internal & External Requests for Information										0		
0.15.05	PA&ED Phase Initiation and Planning	80									80		
0.15.10	PA&ED Execution and Control	120					· · · · · · · · · · · · · · · · · · ·				120		
0.15.15	PA&ED Phase Close Out	40									40		
00.20	Project Management - Construction Phase										0		
0.20.05	Construction Phase Iniation and Planning	40				 		†			40	·	<u> </u>
0.20.10	Construction Phase Execution and Control	40									40	···	r
0.20.15	Project Close Out	40									40	[
0	PERFORM PRELIMINARY ENGINEERING STUDIES & PREPARE PROJECT REPORT		ે ધ્વા 80	80	80	- * 0	80	80	80	0		1280	0.7
0.05.30	Review Project Scope	40	40				40				280		
0.15.25	Circulate, Review, & Approve Draft Project Report	40	40	40			40				280	i	
5	PERFORM ENVIRONMENTAL STUDIES & PREPARE DRAFT ENVIRONMENTAL DOC. (DE	* 0	⊳-⊾760	320	∴ 520	200	40	2 40	120	्र ः 0	2000	3280	1.9
5. 05	Perform Environmental Scoping & Select Alternatives for Study										0		
·5. 05.05	Review Project Information		40	40	40		40	40	40		240		l
5.05.10	Perform Public & Agency Scoping Process		80								80	i — 1	
5.05.15	Select Alternatives for Further Study	Ţ									0	i	
5.05.20	Prepare Maps for Environmental Evaluation										0	[
5.10	Perform General Environmental Studies				[0		
5.10.05	Perform Surveys & Mapping for Environmental Studies										0		
5.10.10	Obtain Right or Permit for Environmental Studies										0	[
5.10.15	Perform Socioeconomic, Land Use & Growth Studies		200								200		
5.10.20	Perform Visual Impact Analysis					200					200		
5.10.25	Perform Noise Study										0		
5.10.30	Perform Air Quality Study										0	i	
5.10.35	Perform Water Quality Studies										0		-
5.10.40	Perform Energy Studies										0		
5.10.45	Prepare Summary of Geotechnical Report		80								80		
5.10.50	Perform Preliminary Site Investigation for Hazardous Waste								80		80	[
5.10.55	Prepare Draft Right of Way Relocation Impact Document										0		
5.10.60	Prepare Location Hydraulic / Floodplain Study Report		80								80	[
5.10.65	Perform Paleontology Study										0	+	
5.15	Perform Biological Studies					<u> </u>					0	[· †	
	Defended Assessed				1	1		T	1			r 	1
5.15.05 5.15.10	Perform Biological Assessment Perform Wetlands Study				<u> </u>		L		I	<u>[</u>	0	1 1	1

	RESOURCES BY		100000000000000000000000000000000000000		Andre Santera	79,77,660		1. C. C. C. S.	- gara ayyar sab	TOTAL CONTRACTOR	0.08 to 1	Lat March 19	- 4
WBS Activity	EA:	Env Proj Mgmt Unit 170	Generalist (Unit 169	Biologist Unit 168	Cultural Unit 178	Landscape Unit 340	Noise/Air Unit 332	Water Quality :- Unit 332	Haz Waste Unit 332	Socio-Econ Specialist	Total Hours	Cumm. Sub Totals	Cumm DV's
.15.15	Perform Resource Agency Permit Related Coordination	of our colors	: Cliffenius tast	80	(ইন্ট্রে ডিয়) ক	₹ 38	Stan inc.	Saferi, Y. J. B.	77 - T.	(T.T.*X	_	—	\vdash
15.20	Prepare Natural Environment Study Report	 		200		 					200		-
.20	Perform Cultural Resource Studies	- 		200	-						200		-
.20.05	Prepare Areas of Potential Effect Map (APE)	 			200	 		-			200		
.20.10	Perform Phase I Archaeological Studies	·			200			 			200		\vdash
.20.15	Prepare Historical Study Report (HSR)	 			200	 					200		\vdash
.20.20	Perform Extended Phase 1 Archaeological Study	 									0		├
20.25	Perform Phase II Archaeology Studies	 							•		0		-
20.30	Prepare Archaeological Survey Report (ASR)	 						 					\vdash
20.35	Prepare Historic Resource Evaluation Report - Historic (HRER-H)	 									0		
.20.40	Prepare Historic Archaeological Survey Report (HASR)	+						 			0		
20.45	Prepare Historic Property Survey Report (HPSR)/Determination of Eligibility				80								<u> </u>
20.50	Prepare Determination of Effect	 			- 00						80		-
20.55	Obtain Public Resources Code 5024 Consultation	 									0		
25	Prepare & Approve Draft Environmental Document										0	· ——	
25.05	Prepare Draft Environmental Document	+	200								0		-
25.10	Prepare Section 4(f) Evaluation	+	200								200		-
25.15	Prepare Cat. Exemption/Cat. Exclusion (CE) Determination	 									0		
25.20	Conduct Environmental PEER & Other Reviews	+	40			\longrightarrow					0		
25.25	Obtain Approval to Circulate	+	40					 			40		
	CIRCULATE DED & SELECT PREFERRED PROJECT ALTERNATIVE	€ 0		₹. £. 0	4 KH 0	0		0	0	. 0	40	2000	-
05	Circulate DED	7 11. 30. 49. 9	1 50 1 5 2 0	3 H.J. 48 W	marana y	St. 3. 7. 0	18197-1. V	States U	U	0	520 0	3800	
05.05	Prepare Master Distribution & Invitation Lists	 	40								————·		-
05.10	Prepare Notices Regarding Public Hearing & Availability of DED	+~-	40								40		-
05.15	Publish & Circulate DED	†	40							·	40		-
10	Prepare for & Hold Public Hearing	1									40		-
10.05	Determine Need for Public Hearing Process	-	40										-
10.10	Select Public Hearing Officer	 	40								40		
10.15	Prepare Displays for Public Hearing	†	80								40		i
10.20	Prepare & Publish Notices of Public Hearing & Availability of DED	+	40								80		
10.25	Conduct Meeting to Review Map Displays & Discuss Public Workshop	 	40								40		ı — -
10.30	Display Public Hearing Maps	 	40								40		
10.35	Hold Public Hearing	 	40								40		· -
10.40	Prepare & Distribute Record of Public Hearing	+	40	-			· · · · ·				40		
15	Respond to Public Comments & Correspondence	+	40		-						40		 -
20	Select Preferred Alternative	 	40				·				40		 -
	PREPARE & APPROVE PROJECT REPORT & FINAL ENVIRONMENTAL DOCUMENT	0 35	: 160	- 7 6	- 0	* . A	· · · · · ·	. i - i .0	afas in To	71 TO TO	0	- 10 10	, ,
10	Prepare & Approve Final Environmental Document (FED)	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-5 ×100		n Control U	.3% . U }	5-2 (U. Service	0	′ 0		3960	\$ 29
10.05	Prepare & Approve FED	+	40			-			•	<u> </u>	0		_
10.10	Public Distribution of FED	 	40			-+				<u> </u>	40		
10.15	Prepare Final Right of Way Relocation Impact Document	 	80					<u> </u>		<u> </u>	40		
15.15	Close Out Environmental Process	 	80					<u>_</u>			80		- -
	Prepare & Approve Record of Decision (ROD) - NEPA	1				1					0	- 1	

	EA:	WB	3. 6.	a i i i i i i i i i i i i i i i i i i i	. <u>K</u>						SEC 1493		1.46 S
WBS Activity	Process & File Notice of D	Env Proje Mgm. Unit 170	Generalist Unit 169	Biologist Unit 168	Cultural Unit 178	Landscape Unit 340	Noise/Air Unit 332	Water Quality Unit 332	Haz Waste. Unit 332	Socio-Econ Specialist	otal Hours	Cumm. Sub Totals	umm. PY's
).15.10	Prepare & File Notice of Determination (NOD) - CEQA	* () (3 gen)	A CORK CHARMAN ()	A STATE OF THE STATE OF T	2010 140 200 12,4	1,19497	(A. 50 Y 13) A	1000 CH (1000)	\$100 PM	94 K + 5	34 . 1,7		0
	OBTAIN PERMITS, AGREEMENTS & ROUTE ADOPTIONS	0	S43 0	200	1	357.6	93.93 . 3.0	\$ 6.0		2 3 3 3 4	0		
.05	Determine Required Permits	1 1 1 1 1 1 1 1	1 1 1 1 V	40	· · · · · · ·		owyna;*: U	i sates.∪	.a/.a ← 0)			2
.10	Obtain Permits	 		40	 			 	 	ļ	40		<u> </u>
.10.05	Obtain U.S. COE Permit (404)	··-		 					 	ļ	0		
.10.10	Obtain U.S. Forest Service Permit			80	ļ		-	 		 	— <u> </u>	II	
.10.15	Obtain U.S. Coast Guard Permit			- 80						 	80	ł	
10.20	Obtain DFG Permit (1601/1603)		<u> </u>	 				 _		 	0	├	
.10.25	Obtain Coastal Development Permit			 	<u> </u>	ļ		-		 	0	ł	
.10.30	Obtain Conditional Use Permit (Local Agency)	 	 	 				 		 	- 0		
10.35	Obtain Grading Permit (Local Agency)						<u> </u>				0	ll	
10.40	Obtain Waste Discharge Permit (NPDES)		ļ	80						ļ	0	ll	
.10.45	Obtain USFWS Approval		ļ	- 80				ļ		 	80	ļ ———	
10.50	Obtain Regional Water Quality Control Board Permit (401)									ļJ	U	l ——-l	<u></u>
35.05	Prepare and Execute Cooperative Agreement for Environmental	-							<u> </u>		0	·	
or and a second	MITIGATE ENVIRONMENTAL IMPACTS & CLEAN-UP HAZARDOUS WASTE	¹ − 1 − 1 − 1 − 1 − 1 − 1 − 1 − 1 − 1 −) 4 d 20	80	× 0		o o				0		
.05	Perform Environmental Mitigation	1998 11 COM	.F.&.; O U	,	U	· U	<u> </u>	<i>7</i> -0	. 0	\$ ° 0			2.
.05.05	Perform Historical Structures Mitigation									 	0	ł	
.05.10	Recover Archaeological Data		<u> </u>	-	·····			 -		 	0	I	
.05.15	Perform Biological Mitigation			80				-		 	·	l ——— i	i
05.20	Perform Environmental Mitigation R/W Work		80					 		 	80	1	
10	Perform Detailed Site Investigation for Hazardous Waste							ļi			80		
.10.05	Obtain Right or Permit for Hazardous Waste Site Investigations		·					<u> </u>			0		
.10.10	Perform Surveys to Locate Hazardous Waste Sites			 			<u>_</u>				0	·	
10.15	Conduct Detailed Investigation		-							 J	0	ŀ -	
.15	Develop Hazardous Waste Management Plan			 -						ļ	0	l·	
.20	Prepare Hazardous Waste PS&E			 						 	0		 -
.25	Perform Hazardous Waste Clean-Up									 -	<u> </u>	ł —-	
25.05	Prepare Hazardous Waste Clean-Up Task Orders							-		 	0	 	
.30	Certify Freedom of Hazardous Waste									 	0	i	
.35	Perform Long Term Mitigation Monitoring										0	l	
	CIRCULATE, REVIEW & PREPARE FINAL DISTRICT PS&E PACKAGE	ata Con	~ 40	80	₹ 80	- 0	40	40	- 40	2000	120	45.10	
.15	Perform Environmental Re-evaluation		40		80		40				320		2.
	PERFORM CONSTRUCTION ENGINEERING & GENERAL CONTRACT ADMIN,	-U.S. 0			≇ 160						320		
05	Prepare Resident Engineer's File		1 96.6019, 131	100	₹.; 4 8:100	SPET. U	y salahari y		3 7 % U	0			2
20.05	Technical Support			80	80	L		 		 	0	·	
50	Prepare Cert. Of Compliance with Environmental Mitigation Requirements			80	80			 		 	160	··	ı——-
•	PREPARE AND ADMINSTER CONTRACT CHANGE ORDERS		SEE N	- 80		2450 A	(3) A	~~ ₃	್ಕಾರ್. ಹ	146.75.2	160		
10	Provide Functional Support	STREET U	40.00 A.003. U	40	40		i Rent Live U	ા કુ≱ાં 0	1 (94)44.0	1 0			2
10.95	Provide "Other" Functional Support			40	40		-	 		ļ	80 80	i———	
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Attachment C
Environmental Schedule

EXHIBIT F THREE-YEAR-ACCIDENT DATA

AXR253-A 06-27-02

TASAS TABLE B DISTRICT 08
SELECTIVE ACCIDENT RATE CALCULATION
ROUTE SEQUENCE

PAGE 1

RA *-NUMBER OF ACCIDENTS/SIGNIFICANCE* PER *ADT * TOTAL *-ACCIDENT RATE ACCS/MV+ OR MVM-* LOCATION DESCRIPTION GRP MULTI KLD MAIN MV+ OR ACTUAL AVERAGE (RUS) TOT FAT INJ F+I VEH WET DARK INJ X-ST MVM FAT F+I TOT FAT F+I TOT 018 SBD 20.610 THRU SBD 020.920 Н 23 0 10 10 12 6 7 0 10.7 3.64 .000 2.75 6.33 .030 .59 1.26 0.311M 99-01-01 01-12-31 36 MO (R) H99 08-0001 Н99 Н99 Н99 12

TASAS TABLE B DISTRICT 08
SELECTIVE ACCIDENT RATE CALCULATION
ROUTE SEQUENCE

PAGE

1

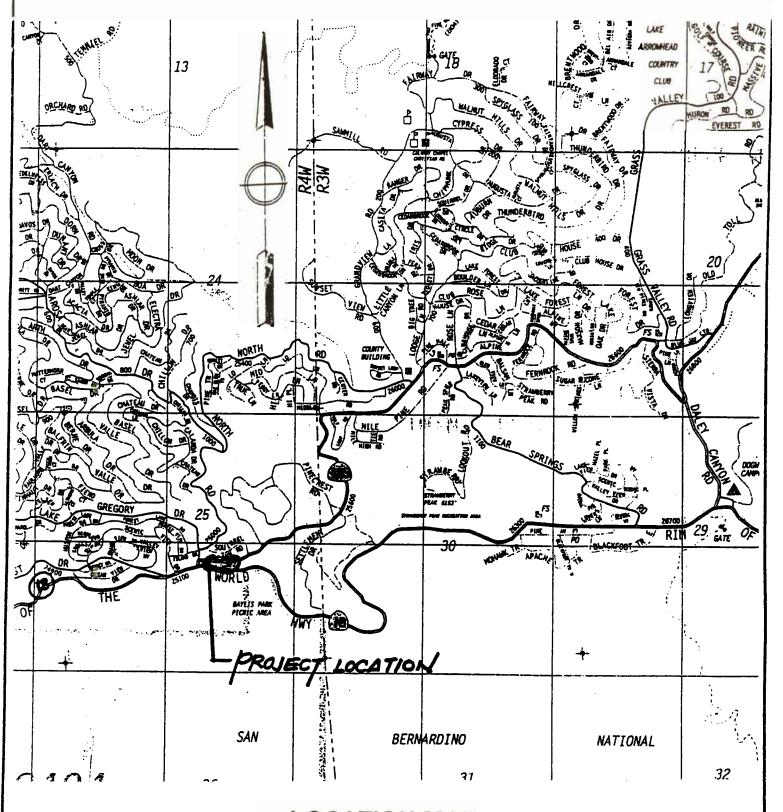
RA *-NUMBER OF ACCIDENTS/SIGNIFICANCE* PER *ADT * TOTAL *-ACCIDENT RATE ACCS/MV+ OR MVM-* LOCATION DESCRIPTION MULTI KLD MAIN MV+ OR (RUS) TOT FAT ACTUAL **AVERAGE** INJ F+I VEH WET DARK INJ X-ST MVM FAT F+I TOT FAT F+I TOT 189 SBD 0.010 THRU SBD 000.310 H07 13 0 2 0.301M 99-01-01 01-12-31 36 MO (S) H99 2 3 08-0001 3 0 3.4 1.12 .000 1.79 11.65 .012 1.14 2.95 H99

EXHIBIT G INITIAL SITE ASSESSMENT (ISA)

INITIAL SITE ASSES	SMENT (ISA) CHE	CKLIST
INITIAL SHE ASSES	SOMENT (IOA) OTTE	
DATE: (JUNE 20, 2002		
PROJECT INFORMATION District 8 County Stick Route	18/189KiloPost (PM) 33.47 /33.55	;0.0/0.37 EA. /A 900K
Scope of Project		
Reconstruct slope	es, rock wall; w	iden lane +shlch.
Project Engineer Environmental Coordinator	PARK Telephone	6223 5918
DATE ISA NEEDED		
Attach the project location map and an ae and/or potential hazardous waste sites.		
 Project Features: New R/W? Structure Demolition/Modification? Project Setting: Rural Urban Current Land Uses: 	Excavation? Railroad Involvement: Subsurface Utility Relocation?	
Adjacent Land Uses:	ght industry, commercial, agriculture, res	sidential, other)
3. Check Federal, State and local en known hazardous waste site s in or near map and attach additional sheets as need PROJECT AFFECTING SITES LISTED ON C	nvironmental and health regulatory agenthe project area. If a known site is idented to provide all information available pe	atified show its location on the attached
		Date
4. Conduct Field Inspect on		1
Storage Structures/Pipulines:	Contamination: (spills, leaks, illegal dumping, etc)	Hazardous Materials: (asbestos, lead, etc.) Buildings
UST's Surface tanks	Surface Staining Oil Sheen	Sprayed-on Fireproofing
D	Odors	Pipe Wrap
Sumps Ponds Drums Basins	Vegetation damage	Friable Tile
Transformers	Other	Plaster Serpentine
Landfill		Paint Other
Other		
5. Other comments and/or observation	ons. NO ADL CONCE	erns on those Poutes.
:::::::::::::::::::::::::::::::::::::::		
ISA DETERMINATION: Does the project have potential had if there is known or potential hazardous we prepared for the Preliminary Eite investigation.	zardous waste involvement? vaste involvement, is additional ISA work	needed before task orders can be f additional time required:
prepared for the Preliminary the Tivestiya		
	1	/ /
, A		r/od/n
ISA CONDUCTED BY	wason Tia	DATE: 6/28/02

.

EXHIBIT H PROJECT INITIATION PROPOSALS



LOCATION MAP

SBD-18-20.80/20.85 (KP 33.47/33.55)
SBD-189-0.18/0.23 (KP 0.29/0.37)
In Rimforest

DEPT. OF TRANS. PROGRAM MGMT. 8-PD37 REV(10/98)

PROJECT INITIATION PROPOSAL (PIP)

CAPITAL OUTLAY

DATE REC IN PROG Created in PMCS by Created in File Make	M. Charte	PIP NUMBER Date: Date:	8-6-01				
A. LOCATION:	SBd-18-20.80/20.85 & SBD-18 Co-Rte-PM	Approximate 0.18 Miles East of Jct Rte 18 In Rimforest Geographic					
Originating Branch Contact Person PROBLEM:	Maintenance Enginering Nhan (x4219)/Larry (x629		6/27/01,	Branch Chief Ba	4278		
The exist	ing metal beam guardrail on ess. 18 from approximate PM See attached	eastbound of SR- 20.80 to 20.85. The photos for more	e existing lane wi		or 172 to 1 Cyperis location		
and new metal beam shoulder width. Als	onstruct existing stack rock or guard rail on the south side or, Extend existing concrete rathe eroding slope. See attack	of SR-189 to acco	ommodate the cui orth side of SR-18	rent standard lane a 3 at approximately 2	and		
Total Project (Cost (Con + R/W + Eng)	: \$1,32	24,000				
Const: Road	work \$1,038,000	Structures	\$0				
Const: Total Cost	\$1,038,000	State Share	\$1,032,000	Local Share	N/A		
R/W: Acquis	ition \$5,000	Utilities	\$60,000				
R/W: Total Cost	\$65,000	State Share	\$65,000	Local Share	N/A		
ENGR: Total Cost	\$221,000	State Share	\$218,000	Local Share	N/A		
B. PROGRAM MANAPPRIME FALL Electronal Manager: Functional Manager: Project Engineer: Comments:	En BAS Fund Source	FED: X. STA: LOC:	Major: Shopp S Minor: Needs Coo Permit Reg: No SHOP	Loc/MeasFY:	PND No.X review. MC 7-2-01		
developa	dents: ched comments. d at the P my and detour froma/ mana	55R, 57	tage. The	re, is a po	the		
D. FINAL DISPOSITION	Reviewer	M. Cho	2-5/2/C	Date:	7-31-67+		
Project Approved:	as submitted	0	with condition	s or revisions indica	ated		
Project Rejected: COMMENTS: DDC Program/Project		PC		Date	8/4/01		

MEETING MINUTES

MEETING DATE: June 6, 2001

TIME: 1:00 - 3:30 P.M.

PLACE: Room 1120, Caltrans District 8

RECORD DATE: June 6, 2001

RECORDED BY: Nhan Nguyen

SUBJECT: Reconstruction of slopes, MBGR, lane width and rock stackwall on SR-189

ATTENDEES: Nhan Nguyen (Mtce) Ext 4219

Larry Heasley (Mtce) Ext 6299 Edward Prescott (Mtce) 867-2102 Dennis Meisenbach (Mtce) 337-3181 Bill Kern (Mtce) 337-3181 Christie Hammond (Env. Cultural Studies) Ext 6933 Kelly Cohen (Biology) Ext 6311 Dave Cooper (Prog Mgt) Ext 4580 Garry Wintergerst (Proj Mgmt) Ext 6334 George Morhig (Proj Mgmt) Ext 7165 Joe Crump (Right of Way) Ext 4737 Iwan Risman (Hwy Ops) Ext 4084 Najib Challita (Hwy Ops) Ext 5943

The items presented below summarize the substantive items discussed or issues resolved at the meeting to the best of writer's memory. If the recipients understand differently please notify the writer as soon as possible 383-4219

A meeting was held at district office to discuss the safety, operations and maintenance issues from PM 0.18 to 0.23 of SR-189 and from PM 20.80 to 20.85 of SR-18. The following items were the results of the meeting:

- 1. Maintenance Unit is responsible to issue PIP for District review and approval.
- 2. The PIP will be submitted as a major project for funding purposes. When the PIP is approved, the Project Report will breakdown the work into different phases and each phase will be funded separately and treated as a minor project in order to accelerate the project.
- 3. If widening SR-189 is required in order to upgrade the existing roadway to standard, it was suggested to widen the southside of SR-189 (between SR-189 and SR18) due to the reasons that this land belongs to US Forest and R/W acquisition may not be required. Also, If it is required to construct a retaining wall to replace the existing rock stackwall on the northside, a temporary easement will be required.
- 4. Cost estimate is needs to be revised to include an additional of \$60,000 for the relocation of utility poles and \$5,000 for R/W easement.

- 5. The type of wall such as crib wall, reinforced concrete retaining wall or other feasible type walls, will be determined during the preparation of Project Report after the PIP is approved.
- 6. The existing roadway on SR-189 is currently Proposed standard width for mountainous area for SR-189 will be addressed in the Project Report.
- 7. Local Maintenance office will be monitoring the rock stackwall on westbound SR-189 at PM 0.23. If the rock falls apart onto SR-189, maintenance crew will be responsible for cleaning.
- 8. Local Maintenance office will also continue to monitor the movement as well as the roadway condition of SR-189 from PM 0.18/0.23 and SR-18 PM 20.80/20.85. If for some reasons the roadway/bed is noticed to be unstable, an emergency contract will be issued if it is warranted.
- 9. Environmental/Cultural Studies Unit may prepare the study of this project in conjunction with the project EA 0A730G (Rock Pillars) which may help to accelerate this project.
- 10. Environmental/Cultural Studies Unit will verify the historical of the rock stackwall on westbound SR-189 at PM 0.23 prior to any work such as removal or other work related to the stack wall.

STATE OF CALIFORNIA

SUBJECT OF MEETING:

DEPARTMENT OF TRANSPORTATION

MEETING ATTENDANCE RECORD

Safety, Operations and Maintenance issues from PM 0.18 to 0.23

	,,	
	of SR-189 and from PM 20.8 to	20.85 of SR-18
Date: Wednesday 6/6/01	Time: 1:00 - 3:30PM	Place: District 8, Room 1120
Attendees	Representing	Phone Number
Joe Crump	Right of Way	(909) 383-4737
Bill Kent	Maintenance	(909) 337-3/8/
Edward W. Prescott	Maintenance	909-867-2102
DENNIS MEISENBACH	MICE	909-337-3181
Nhan Nguyen	MTCE	(909) 383-4219
Christie Hammond	Env. Cultural Stu	dies (909) 383-6933
DAUE COOPER	PROG. MGT	(909) 383-4588
NAJIB CHALL TA	DRS	909 383 5943
Iwan Risman	Ops	909 383-4084
Larn Heastey	Mee	909 383 6299
Kelly Cohen	Biology	909 387 6311
Gary Wintergerst	Proj dynt	909 383-6334
/ //	0	

DEPARTMENT OF TRANSPORTATION

District 8 - Maintenance Engineering

PRELIMINARY COST ESTIMATE

Project:

Reconstruct eroded slope and existing roadway width to standard

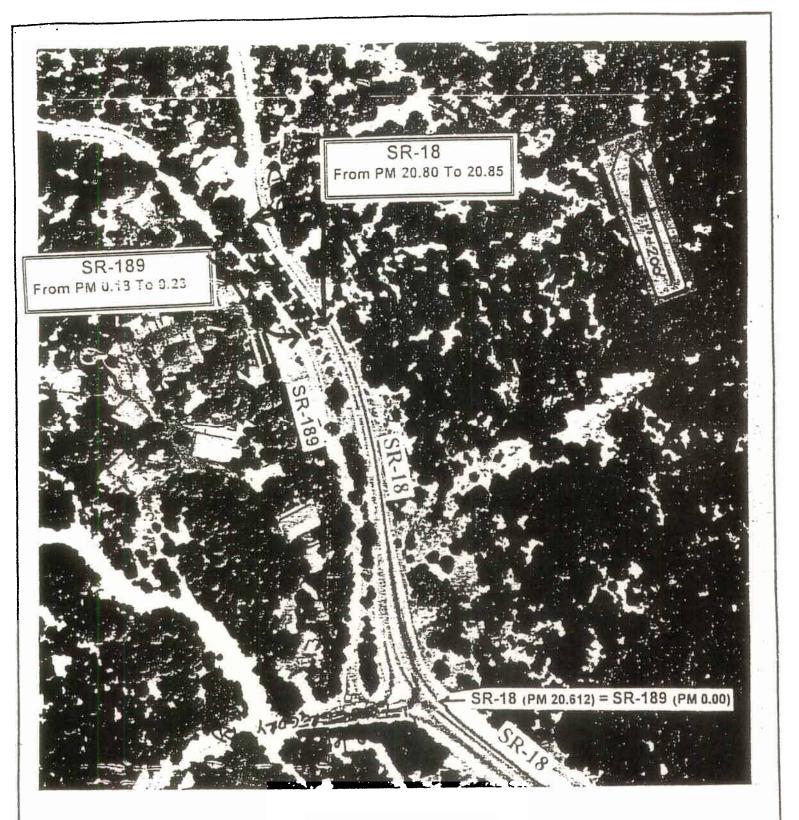
CALCULATED BY: Nhan Nguyen
CHECKED BY: Basem Muallem

DATE: 6/26/01 DATE: 6/26/01

COUNTY		ROUTE									
	SBd	189	0.18/0.23	Rimforest							
Item	Item Code		Description		Unit	Estimated Quantity	Unit Price	Item Total			
1	120100	Traffic Control (\$3	3000/day)		day	10	\$3,000	\$30,000			
2	150769	Remove Asphalt	Concrete		m2	500	\$15	\$7,500			
3	151572	Reconstruct MBC	R (Eastbound of SR-189)		E	100	\$90	\$9,000			
4	160120	Remove Tree			ea	15	\$800	\$12,000			
5	192036	Structure Excava	tion (Crib Wall)		m3	5000	\$15	\$75,000			
6	192067	Structure Excava	tion (Retaining Wall)		m3	5000	\$15	\$75,000			
7	193012	Structural Backfill	(Crib Wall)		m3	5000	\$15	\$75,000			
8	193013	Structure Backfill	(Retaining Wall)		m3	5000	\$15	\$75,000			
9	260201	Class 2 Aggregat	e Base		m2	500	\$17	\$8,500			
10	390101	Asphalt Concrete			m2	500	\$30	\$15,000			
11	510060	Extend Exist 250' of 18	THt Reinforced Conc. Retaining Wall	(North Side of &R-18)	m3	600	\$450	\$270,000			
12	513603	Construct Reinforced Concrete Cribwall (South Side of SR-189)				800	\$300	\$240,000			
13		Remove/Reconst	ruct existing stack rock retain	ning wall	is	1	10000	\$10,000			
Subto	al (Road)	Structures R/W (Easement) Utilities (Relocation	on)		is is	1 1	\$5,000 \$60,000	\$5,000 \$60,000 \$902,000			
	gencies					<u></u>		\$136,000			
	-	(Roadwork)			\$902,000	+ \$136,000		\$1,038,000			
			vork+Str+R/W+Utilities)		\$0	+ \$5,000	+ \$60,000	\$1,103,000			
		Administration S			,103,000			\$221,000			
		TOTAL PR	OJECT COST					\$1,324,000			

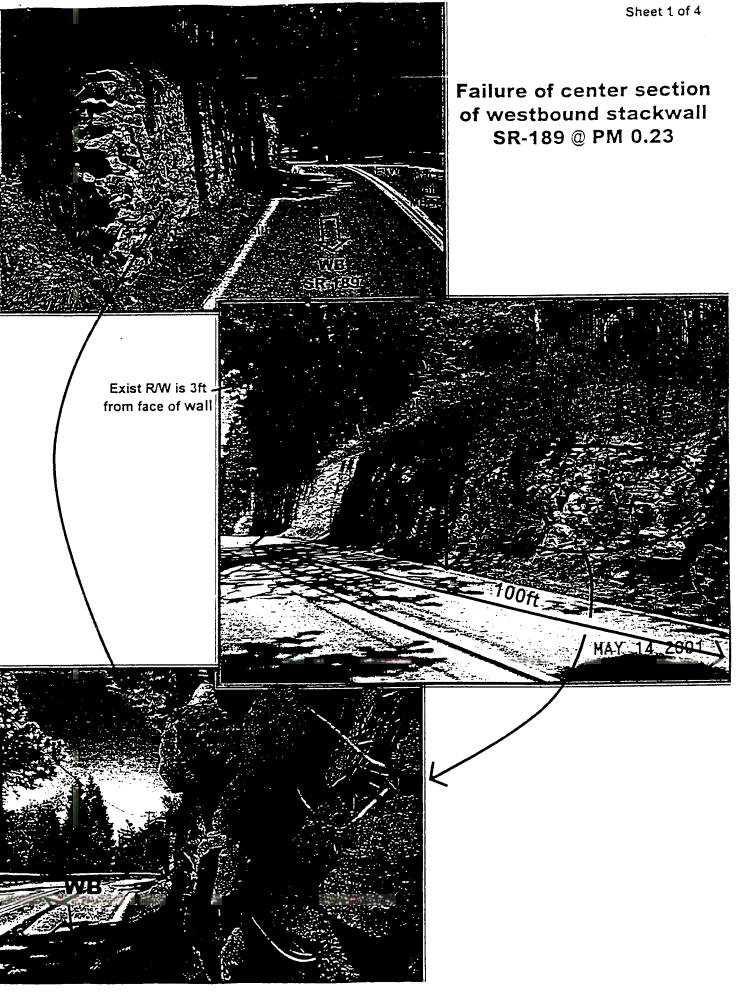
Cool Est Form by Nhan Nguyan

theeting regarding salety, o	perations and maintenance issues on SR-131 and SR-18 - Lotus Hotes Desktop
For 52 Vew Centel A	
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A STATE OF THE STA	STATE OF THE PROPERTY OF THE P
ণ্ডা Calendar Ei	
C Appointment @ Invitation	n O Event O Reminder O Anniversary
Brief description:	
Meeting regarding salety oper Roome 1/20: FB look - 3 skill	abons and mantenance insues on SR-183 and SR-185
Date: Tim	MCC
	OTENS GEOGRAPHICA DE Penci in Not for public viewing
Detailed description: The Maintenance Unit hereby	requests for all related parties to attend this meeting regarding the safety, operations and maintenance issues from PM 0.18 to 0.23 of SR-189 and from PM 20.8 to 20.85 of S
Problems;	
The existing 100 feet of stac	ceived numerous complains from the commuters that the existing roadway width on SR-189 at approximate PM 0.23 is substandard (existing lane width is 9 to 9.5), skwal on SR-189 at approximate PM 0.23 is falling apart. Sund direction of SR-189 is eroded resulting lailure of support M8GR and roadway.
Solutions:	
Will be discussed in the meetin	g ·
Nhan Nguyen for Basem Muali	em (Maintenance Project Manager)
Invitations have been sent to:	Basem Mualem/D08/Caltrans/CAGov@00T, George Morhig/D08/Caltrans/CAGov@00T, Dave Cooper/D08/Caltrans/CAGov@00T, Morgan Chosts/D08/Caltrans/CAGov@00T, Summer Baker/D08/Caltrans/CAGov@00T, Lany Heastey/D08/Caltrans/CAGov@00T, Garry Winter/gerst/D08/Caltrans/CAGov@00T, David Bricker/D08/Caltrans/CAGov@00T, Kely Cohen/D08/Caltrans/CAGov@00T, George Prik/D08/Caltrans/CAGov@00T, David Bricker/D08/Caltrans/CAGov@00T, Syed Raza/D08/Caltrans/CAGov@00T, Shan Hirman/HQ/Caltrans/CAGov@00T
Distributed	

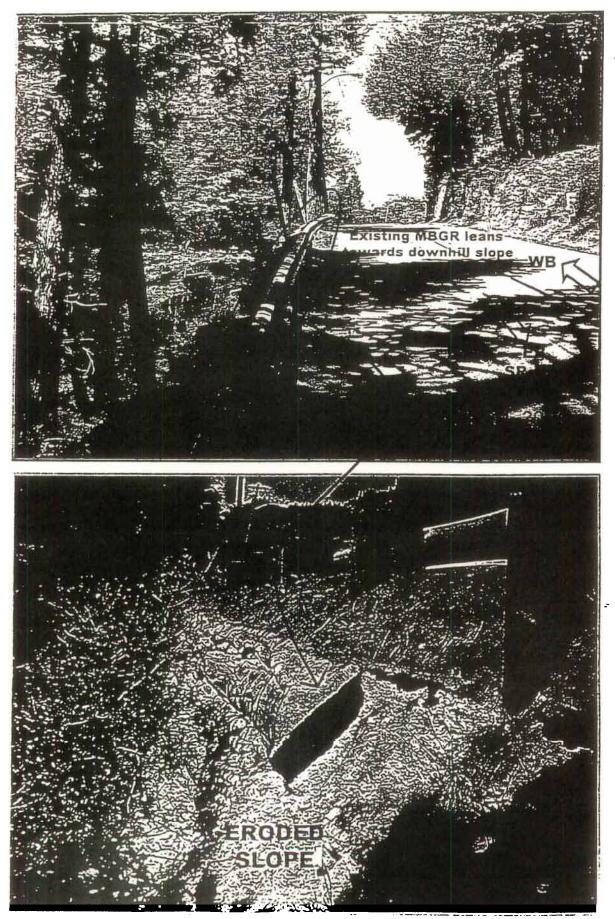


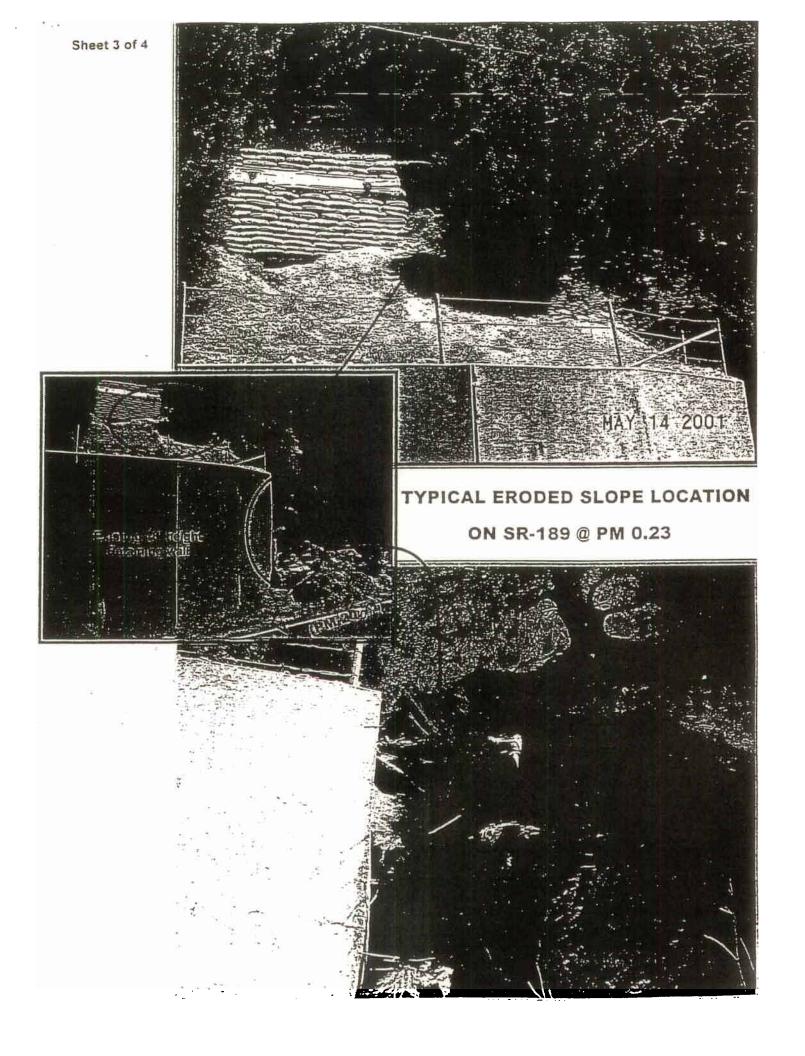
LOCATION MAP

SBD-18-20.80/20.85 (KP 33.47/33.55) SBD-189-0.18/0.23 (KP 0.29/0.37) In Rimforest



Failure of support MBGR section of east bound SR-189 @ PM 0.23





DEPT. OF TRANS.
PROGRAM MGMT.
8-PD37 REV(10/98)

DATE REC IN PROG MGMT Created in PMCS by:	UL 0 2 2001 E.A	· 	PIP NUMBER Date:	2417) -
Created in File Maker Pro by	<i>y</i> :	_	Date:		•
	-20.80/20.85 & SBD-189 Co-Rte-PM	-0.18/0.23	Approximate (0.18 Miles East of a	Jct Rte 18
	iintenance Enginering n (x4219)/Larry (x6299)	Date	6/27/01	Geographic	Basem Muallem
The existing stack rock on the existing metaloge that parallels SR-18 from SOLUTION(S): TOPELS	al beam guardrail on ea om approximate PM 20 See attached p	stbound of SR-18	existing lane wi	erosion dth on SR-189 at t	of 1/2 to 1 exphis location
t is proposed to reconstructed new metal beam guard in thoulder width. Also, Extended to east to stabilize the erodinformation.	rail on the south side of d existing concrete retaing ling slope. See attache	FSR-189 to accor aining wall on no d "MEETING MIN	mmodate the cur rth side of SR-18 UTES" dated Jui	rent standard lane I at approximately	and 250 feet to
Total Project Cost	(Con + R/W + Eng):	\$1,324	,000		
onst: Roadwork	\$1,038,000	Structures	\$0		
onst: Total Cost	\$1,038,000	State Share	\$1,032,000	Local Share	N/A
W: Acquisition	\$5,000	Utilities	\$60,000		
W: Total Cost	\$65,000	State Share	\$65,000	Local Share	N/A
NGR: Total Cost	\$221,000	State Share	\$218,000	Local Share	N/A
PROGRAM MANAGEMEN gm HA42 Elem Par roject Manager: roject Engineer: comments: Froject Fro	S Fund Source: Wintergerst	FED: X. - STA: LOC:	Major: X Shopp X S Minor: Needs Coo mit Req: No	tip Loc/MeasFY: p Agree: YesType	PND No.3/2 - deviceo.7
REVIEWER COMMENTS:				Request Staff Re	eview
I believe projec	t must be HA	42 due		result in la	es of
REVIEWER COMMENTS: I believe projector retaining well ne or both land searchility of Environments	requirements, on Rte 189 roments 1/Cultu	if correct	tive mees	ures are not le of Rte	L taken. 189.
	viewer 32-1	20 24	it		7/19/200
FINAL DISPOSITION: oject Approved: oject Rejected: DMMENTS:	_ as submitted _		with conditions	or revisions indic	ated

'DEPT. OF TRANS. PROGRAM MGMT. 8-PD37 REV(10/98)

COMMENTS:

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A. LOCATION: SB	d-18-20.80/20.85 & SBD-189- Co-Rte-PM	-0.18/0.23	Approximate (0.18 Miles East of . In Rimforest	Jct Rte 18
Originating Branch Contact Person PROBLEM:	Maintenance Enginering Nhan (x4219)/Larry (x6299)	Date	6/27/01	Geographic Branch Chief E Telephone Ext.	Basem Muallem
SOLUTION(S): The existing slope that parallels SR-SOLUTION(S): The existing slope that parallels slope slope that parallels slope slop	truct existing stack rock on ard rail on the south side of	stbound of SR-13 80 to 20.85. The photos for more of west bound of S SR-189 to accord	existing lane widdetails. SR-189; construct	tth on SR-189 at the second se	ete cribwali and
shoulder width. Also, E the east to stabilize the information.	xtend existing concrete reta eroding slope. See attache	aining wall on no d "MEETING MIN	rth side of SR-18 IUTES" dated Jur	at approximately ne 6, 2001 for more	250 feet to
Total Project Cost	(Con + R/W + Eng):	\$1,324	,000		
Const: Roadwor	k \$1,038,000	Structures	\$0	•	
Const: Total Cost	\$1,038,000	State Share	\$1,032,000	Local Share	N/A
RW: Acquisition	\$5,000	Utilities	\$60,000	-	
R/W: Total Cost	\$65,000	State Share	\$65,000	Local Share	N/A
ENGR: Total Cost	\$221,000	State Share	\$218,000	Local Share	N/A
B. PROGRAM MANAGE Pgm HA42 Elem Project Manager: Functional Manager: Project Engineer: Comments: If project tegens		FED: X STA: LOC:	Major: X Shopp St Minor: Needs Coop mit Req: No	Loc/MeasFY:Agree: YesType	PND No.Z Periero. MC 7-2-01
C. REVIEWER COMMENT	$ +$ \sim \sim \sim	Em of	work	Request Staff Re	
Flagging or m not lar	pilat car que enough struction Reviewer	may b	possib	ility of Date:	yes)
D. FINAL DISPOSITION: Project Approved: Project Rejected:	as submitted		with conditions	or revisions indica	ated

• .DEPT. OF TRANS. PROGRAM MGMT. 8-PD37 REV(10/98)

COMMENTS:

DATE REC IN PROG Created in PMCS by: Created in File Maker	<u> </u>		PIP NUMBER Date: Date:	2417	•
A. LOCATION: S	Bd-18-20.80/20.85 & SBD-189- Co-Rte-PM	0.18/0.23	Approximate (0.18 Miles East of J	Jct Rte 18
Originating Branch Contact Person PROBLEM:	Maintenance Enginering Nhan (x4219)/Larry (x6299)	Date	6/27/01	Geographic Branch Chief E Telephone Ext.	4278
The existing slope that parallels S	g metal beam guardrail on eas R-18 from approximate PM 20. See attached p	stbound of SR-18	existing lane wi	erosion dth on SR-189 at th	of 1/2 to 1
and new metal beam shoulder width. Also	nstruct existing stack rock on guard rail on the south side of Extend existing concrete reta he eroding slope. See attached	SR-189 to accomining wall on no	nmodate the currith side of SR-18	rent standard lane at approximately	and 250 feet to
Total Project Co	ost (Con + R/W + Eng):	\$1,324	,000	•	
Const: Roadw	ork \$1,038,000	Structures	\$0		
Const: Total Cost	\$1,038,000	State Share	\$1,032,000	Local Share	N/A
R/W: Acquisit	s5,000	Utilities	\$60,000	_	
R/W: Total Cost	\$65,000	State Share	\$65,000	Local Share	N/A
ENGR: Total Cost	\$221,000	State Share	\$218,000	Local Share	NIA
B. PROGRAM MANAGE Pgm HA42 Elem Project Manager: Functional Manager: Project Engineer: Comments: If sprivel Project re	01-	FED: X. STA: LOC:	Major: X Shopp Si Minor: Needs Coop rmit Reg: No SHOP J	Agree: Yes	PND No.X review. Mc 7-3-01
C. REVIEWER COMME	NTS:			Request Staff Re	view
of Concur of Comments of the party of the pa	with problem retain about split the pr	Solith Kow Apr Oglet in	ion Ce ropiet Suid.	Date:	A 40 760/01
D. FINAL DISPOSITION Project Approved: Project Rejected:	: as submitted		with conditions	or revisions indica	ited

PROGRAM MGMT. 8-PD37 REV(10/98)

DATE REC IN PROG Created in PMCS by: Created in File Maker	<u> </u>	PIP NUMBER Date: Date:	241	7 			
A. LOCATION: <u>S</u>	Bd-18-20.80/20.85 & SBD-189 Co-Rte-PM	Approximate 0.18 Miles East of Jct Rte 18 In Rimforest					
Originating Branch Contact Person PROBLEM:	Maintenance' Enginering Nhan (x4219)/Larry (x6299)	Date	6/27/01	Geographic Branch Chief Telephone Ex	Basem Muallem		
The existing the control of the cont	sk on westbound of SR-189 is g metal beam guardrail on ea R-18 from approximate PM 20 See attached	stbound of SR-18	existing lane wi	erosio dth on SR-189 at	n of 1/2 to 1 this location		
nd new metal beam g houlder width. Also,	nstruct existing stack rock or puard rail on the south side o Extend existing concrete ret e eroding slope. See attache	f SR-189 to accon aining wall on no	nmodate the cur rth side of SR-18	rent standard lan Sat approximately	e and		
Total Project Co	st (Con + R/W + Eng):	\$1,324	,000				
onst: Roadwo	rk \$1,038,000	Structures	\$0		•		
onst: Total Cost	\$1,038,000	State Share	\$1,032,000	Local Share	NA		
W: Acquisition	on \$5,000	Utilities	\$60,000		•		
W: Total Cost	\$65,000	State Share	\$65,000	Local Share	N/A		
NGR: Total Cost	\$221,000	State Share	\$218,000	Local Share	N/A		
PROGRAM MANAG m HA42 Elem oject Manager: oject Engineer: omments: f pproven		FED: <u>X</u> - STA: LOC:	Major: X Shopp Si Minor: Needs Coo mit Req: No	FY:	PND No Z Verico.		
REVIEWER COMMEN			**********	Request Staff R	eview		
need R well W	IW Data She need a fe	uil fr	ility &	Leach.			
\	Reviewer Les	y Il	nl	Date:	7/19/0/		
FINAL DISPOSITION: Dject Approved: Dject Rejected:	as submitted		with conditions	or revisions indic	cated		

EXHIBIT I PROJECT CATEGORY APPROVAL

Memorandum

Flex your power!
Be energy efficient!

To: MR. KENNETH NELSON

Design

TOM: DEPARTMENT OF TRANSPORTATION

OWEN SPENCER, DESIGN B - MS 9-71

Subject: Project Category Approval

Date: May 9, 2002

File: 08-SBd-18/189 KP 33.172

(PM 20.612)

Reconst slopes, stackwall on Rte 189 and extend retaining wall on Rte 18

08221 - 1A900K

Approval is requested for the above-referenced project to be assigned Category 4B in accordance with the requirements in Chapter 8, Section 5, of the Project Development Procedures Manual, seventh edition.

It is proposed to reconstruct slopes, replace existing stack rock on westbound SR189, widen existing lane and shoulder widths to current standard, and restore metal beam guardrail on eastbound SR 189. The proposed project also extends the retaining wall on the north side of SR 18 to stabilize the eroded slope.

A Category 4B approval is requested for this project because it meets the following criteria:

- 1. No new right of way is required
- 2. No increase traffic capacity
- 3. A Negative Declaration is probably required

Attached for your use is a copy of the Right of Way Data Sheet. If you have any questions, or additional concerns, please contact me at ext. 6223 or Dat Wong at ext. 1062.

Approved by:

KENNETH NELSON, DDD

Design

Date

Attachment

 SBaker, Environmental Control, MS 12-34 MSAbdelgwad, R/W, MS-M GWintergerst, Project Manager, MS 12-29 File

JM/ym

EXHIBIT J WORK PLAN

WORKPLAN AGREEMENT

EA:	1A90	0				Progra	m	_	_					
COR	TEPM	: SB -018 -20.8 /20.	.9	****		Docum	ent pr		nding FY PPI	NO State A	AA:			
'ROJEC	T LOCATIO	•	-	PHOGH. 1.3 Km E/o Jct Rte 18	AMMING: B/189	Pril	ist	1A42		YE	<u> </u>			
	ESCRIPTIO	N: Beconstruct Slopes, Stack Wall, y	Viden Lane	& Shoulder On Rte 1	89 And Ext	end Ratain	ing Wall O	n Rio 18						
PROJE	CT MANAG	ER : Gary Wintergerat PRO	JECT ENG		Wong			SENIOR:	Owe	n Spencer		CONSTRU	CTION SENI	NOD.
OST ES	STIMATES:	Bridge Roadway Total Const R	ΩY <u>S</u> u	STATE PRIORI TOTAL	Local		Loca	I LOCAL	PRO	DJECT		CONSTRUC	CHON SENI	юн:
	ogrammed			MON TOTAL	Const	<u>.B.W.</u>	Supp	on IOTAL		TAL				
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Propo	. —	/02 10/1/03 1/1/04 /02 4/1/02 10/1/03 1/1/04		4/5/04 4/5/04	4/5/04	11/1/04				8/1/05	12/1/05	1/2/06	2/1/06	4/3/06 6/1/06 3/2/07 8/1/07
		131700 17104		4/3:04	4/5/04	11/1/04		2/2/05	6/1/05	8/1/05	12/1/05	1/2/06	2/1/06	4/3/06 6/1/06 3/2/07 8/1/07
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ن				1 Sec	EM	Current Proposed:	18	10				1/1/02	8/1/07	Request Review Reviewed
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三つ	100	Project Management	08.309	Right Of Way Engin		Baseline.	_		_					O Province P.
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ヨ	100	Project Management	08.330	CADD Support		Baseline	_		_					O Bernard B. :
3)				CADD Support	514	Current roposed:		10				1/1/02	8/1/07	O Request Review Reviewed
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三	100	Project Management	08.365	Manuel Jabson Operations Services		Baseline:	-							0.8
<u>٠</u>				Obelations Selvices		Current roposed:		10				1/1/02	8/1/07	O Request Review Reviewed
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و				Electrical Operations		Current		10				1/1/02	8/1/07	O Request Review
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ン				Maintenance Engine	_	Current		10				1/1/02	8/1/07	Request Review Reviewed
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9				Capital Outlay Mana	gement	Current		15				1/1/02	8/1/07	O Request Review
-					FMP	roposed	= [Reviewed
II e	100	Project Management	08.327	Bruce Kean		Baseline	_							0.5
(0)				Materials Engineerin	-	Current	(2	15	2			1/1/02	8/1/07	Request Review Reviewed
					Triff P	roposed			_					CAREVIEWED

Program: SHOPP

RTL: NA

Schedule Rev Date: 4-30-02

E.A. 1A900: SBd-18-20.80/20.85 & SBd-189-0/0.23 Construct Cribwall & Guard Rail, Stabilize Slope, Widen SR-189 IS/EA

Project Manager: G Wintergerst Design Senior: O Spencer

> Generalist: J Walsh Biologist:K Cohen Culturalist:C Hammond

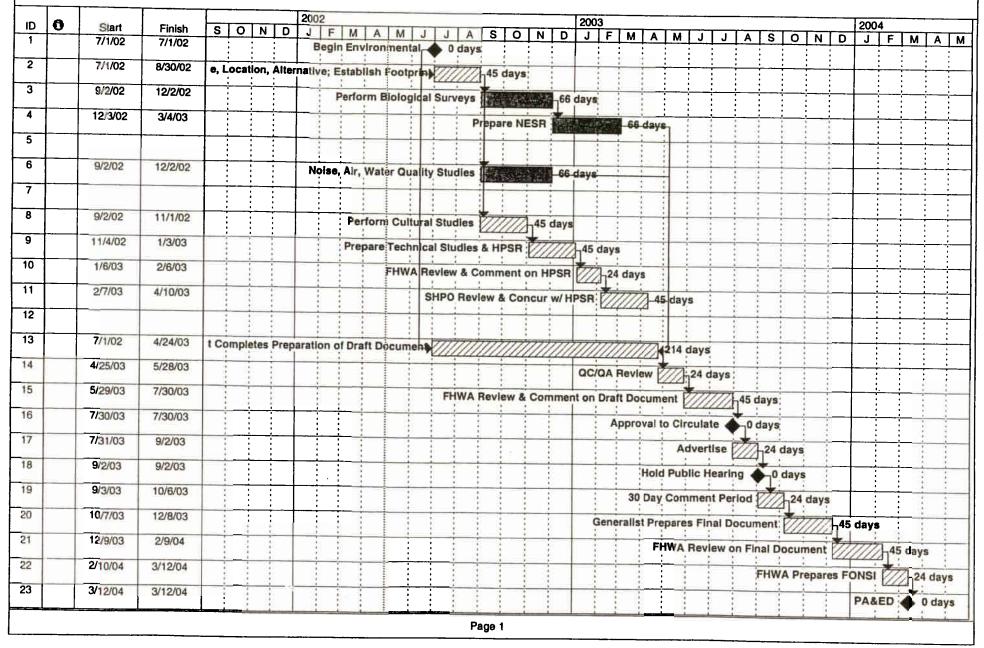
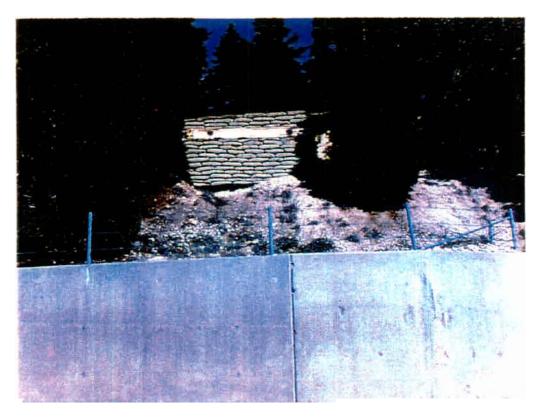
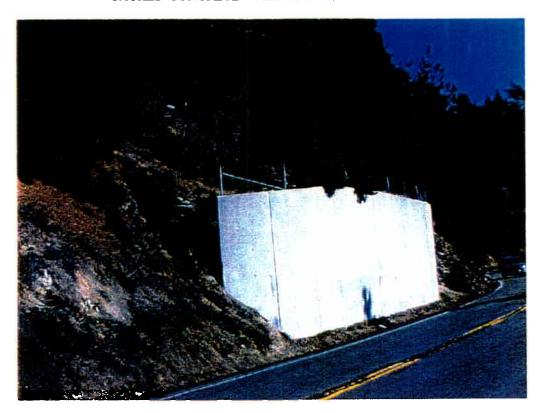


EXHIBIT K PHOTOS



SACKED-CONCRETE WALL ABOVE RETAINING WALL



TYPE 1 RETAINING WALL ON STATE ROUTE 18

EXHIBIT L PSR PERFORMANCE MEASURES

PSR Performance Measures For EA: 1A900K

		SCOPE
Yes	No	
X		 Is the "Need and Purpose" clearly defined and written in accordance with applicable permitting agency requirements?
X		• Do the alternatives stay within scope or solve problem identified in "Need and Purpose"?
X		 Does the scope incorporate required allied projects such as Traffic Management System (TMS) elements, replacement planting, environmental mitigation, maintenance needs, and relinquishment requirements?
X		• Have non-standard features, if any, been approved using established guidelines?
X		 Is scope consistent and coordinated with local, regional and state system plans?
		Scope Confidence Rating: 5
		1 low to 5 high
Vec	No	COST
X		• Is the estimate realistic and in accordance with established guidelines? Does it include a sum for contingencies consistent with risk?
×		 Does the cost incorporate required allied projects such as TMS elements, replacement planting, environmental mitigation, relinquishment requirements?
X		• Is the right of way cost developed in accordance with established guidelines and consistent with anticipated needs?
	X	• Were benefit/cost ratios and/or the data to calculate them provided?
X	<u></u>	• Were funding sources and commitments identified? Is proposed funding program consistent with project type?
X		 Were support costs identified in a manner consistent with SB 45 and CTC Guidelines and supported by a complete project work plan?
		Cost Confidence Rating: 4
		1 low to 5 high
Yes	No	SCHEDULE
X		• Is time allowed for environmental evaluation and construction commensurate with anticipated studies and work windows (e.g., hazardous waste, endangered or season-specific species)?
X		• Does the schedule incorporate required allied projects such as TMS elements, replacement planting, environmental mitigation, relinquishment requirements
X		 Is Right of Way time provided consistent with anticipated needs, including railroad and utilities?

Schedu Yes No	lle Continued:
	• Do local stakeholders agree with the schedule?
X 🗆	• Is schedule consistent and coordinated with local, regional and state plans?
	Schedule Confidence Rating: 5
	QUALITY 1 low to 5 high
Yes No	
	 Was the preliminary design, right-of-way, traffic and environmental effort adequate to confidently establish scope, schedule and estimate?
	 Were the studies adequate to identify all project stakeholders such as permitting agencies and community groups, and their anticipated levels of involvement?
	 Were there adequate peer reviews such as district functional units, safety, maintenance and constructability reviews, value analysis, and OPPD so to alleviate any undue risk?
	Quality Confidence Rating: 5 1 low to 5 high
Overall	PSR Confidence Score Total: 19 x 5 = 95 Note: Add above individual section confidence ratings and multiply by 5 to obtain overall
Other:	confidence score. A score of less than 70 indicates "High Risk."
	any "No" responses as appropriate:
-	Note: Any "No" boxes checked indicate a high risk and potential future problems
	apt was made to quantify benefit/cost ratio.
PSR deve	elopment support costs: \$ 60,000
Prepared	By: Lhave read and approve this evaluation:
Project M	Martin 8/1/2002 Date District Director Date